

Company: PIONEER CORPORATION  
Kind of Equipment: CD Receiver  
Serial No.: 5773995

Report No.:  
Model No.:  
Power:

29DE0121-YK-02-A  
DEH-P710BT  
DC 12.0V

### Channel Separation (Regulation: FCC 15.247(a)(1))

UL Japan, Inc. Yamakita EMC lab.

Date:

Temp:

Humid:

Engineer:

Test mode:

No.1 / 2 shielded room

2008/12/3

2008/12/19

23 deg. C.

21 deg. C.

36 %

37 %

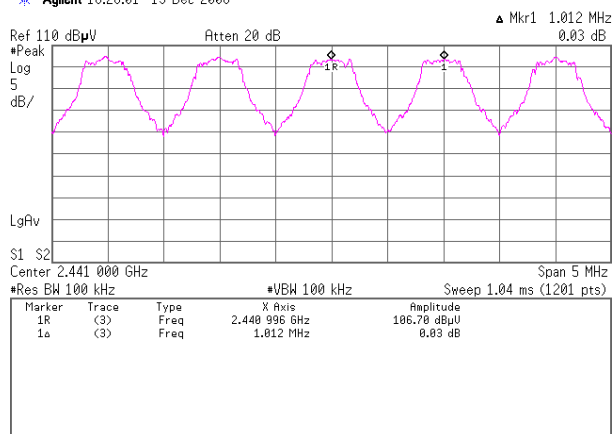
Tatsuya Arai / Makoto Hosaka

Transmitting

Limit:  $\geq 25\text{kHz}$  or  $2/3 * 20\text{dB}$  Bandwidth (Power: No greater than 125mW)

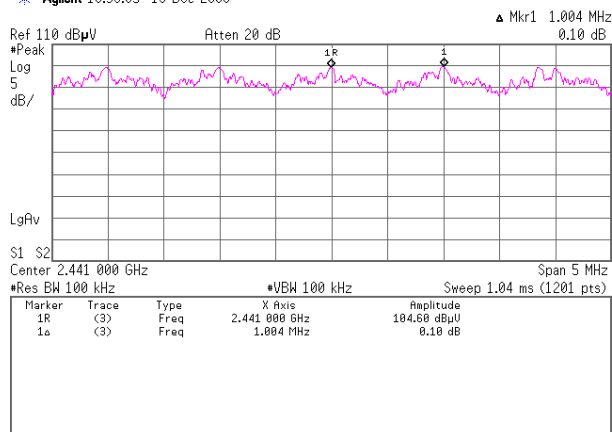
#### 1. Hopping, DH5: 1.012MHz ( $2/3 * 20\text{dB}$ Bandwidth: $2/3 * 1.0075\text{MHz} = 671.7\text{kHz}$ )

\* Agilent 16:26:01 19 Dec 2008



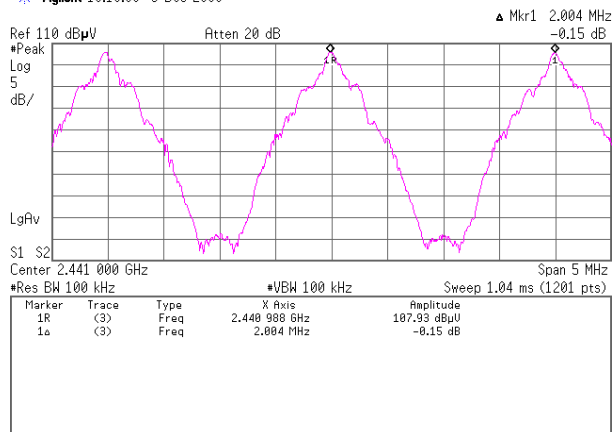
#### 2. Hopping, 3DH5: 1.004MHz ( $2/3 * 20\text{dB}$ Bandwidth: $2/3 * 1.310\text{MHz} = 873.3\text{kHz}$ )

\* Agilent 16:39:05 19 Dec 2008



#### 3. Inquiry: 2.004MHz ( $2/3 * 20\text{dB}$ Bandwidth: $2/3 * 810.0\text{kHz} = 540.0\text{kHz}$ )

\* Agilent 16:10:06 3 Dec 2008



## 20dB Bandwidth (Regulation: FCC 15.247(a)(1))

UL Japan, Inc. Yamakita EMC lab.

Date:

Temp./Humid.:

Engineer:

Test mode:

No.1 shielded room

2008/12/3

23 deg. C. / 36 %

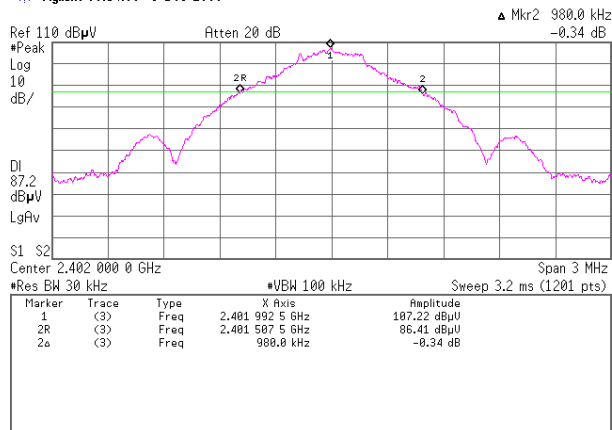
Tatsuya Arai

Transmitting

[Hopping off, DHS]

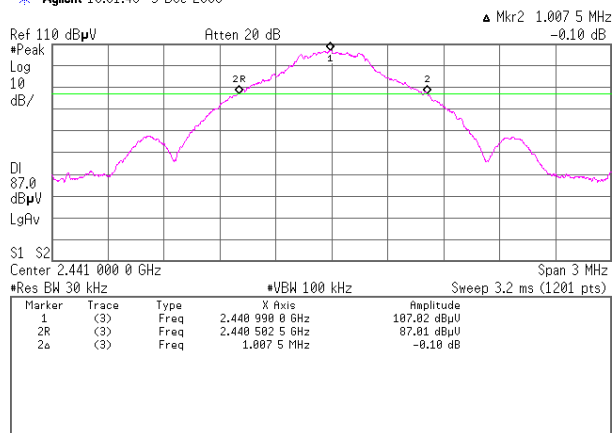
### 1. ch : 2402MHz/20dB Bandwidth: 980.0kHz

Agilent 09:54:06 3 Dec 2008



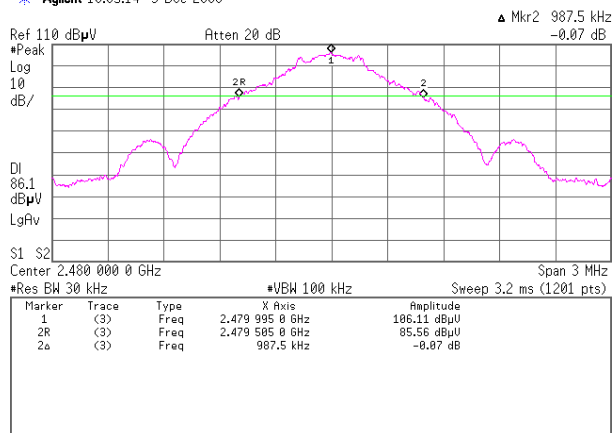
### 2. ch : 2441MHz/20dB Bandwidth: 1.0075MHz

Agilent 10:01:49 3 Dec 2008



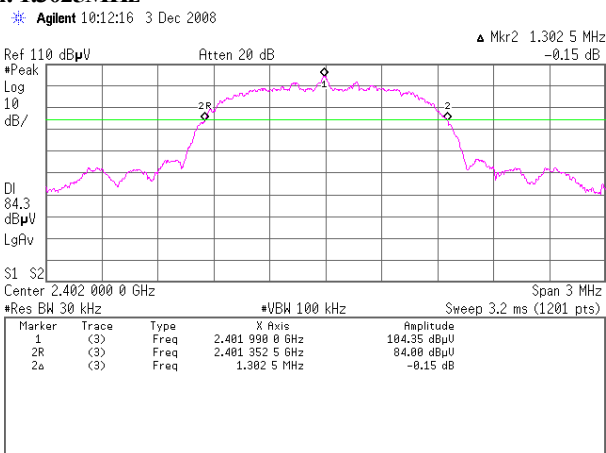
### 3. ch : 2480MHz/20dB Bandwidth: 987.5kHz

Agilent 10:05:14 3 Dec 2008

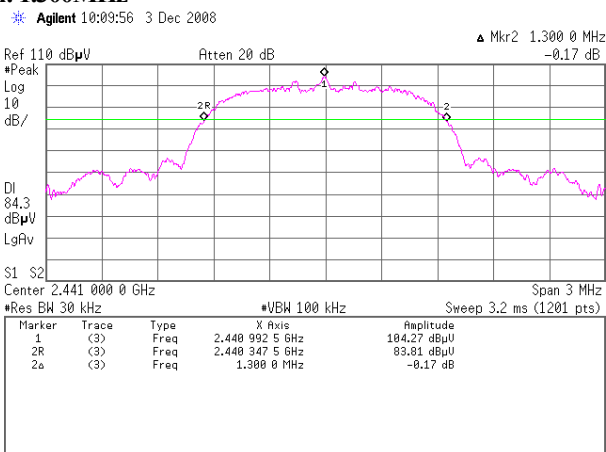


[Hopping off, 3DH5]

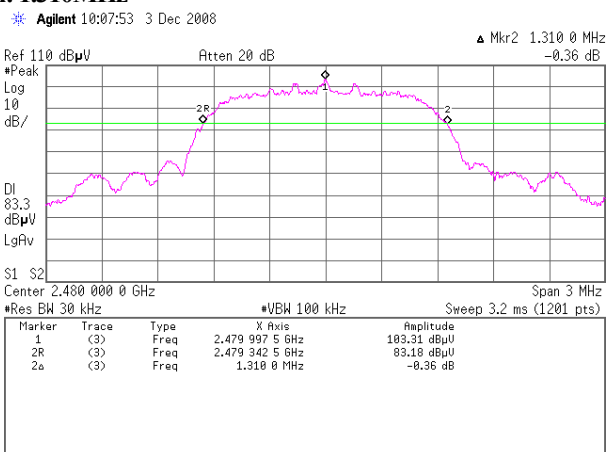
4. ch : 2402MHz/20dB Bandwidth: 1.3025MHz



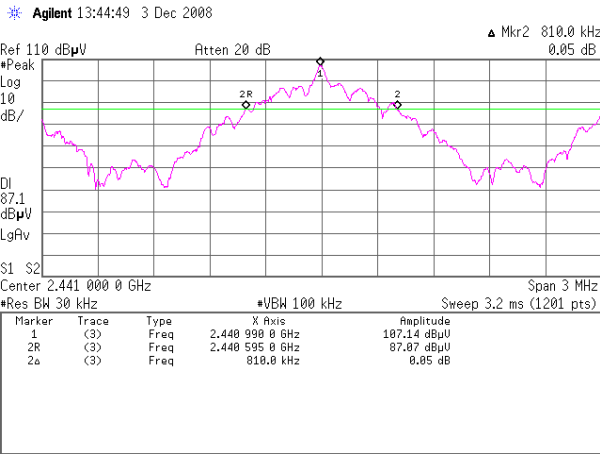
5. ch : 2441MHz/20dB Bandwidth: 1.300MHz



6. ch : 2480MHz/20dB Bandwidth: 1.310MHz



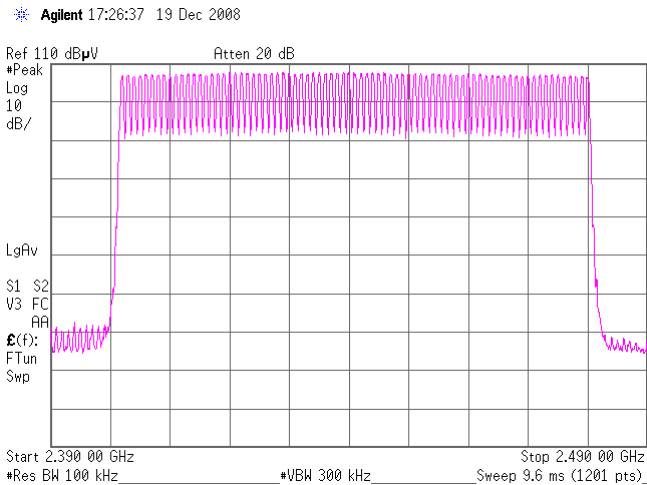
[Inquiry]  
7. Inauriry/20dB Bandwidth: 810.0kHz



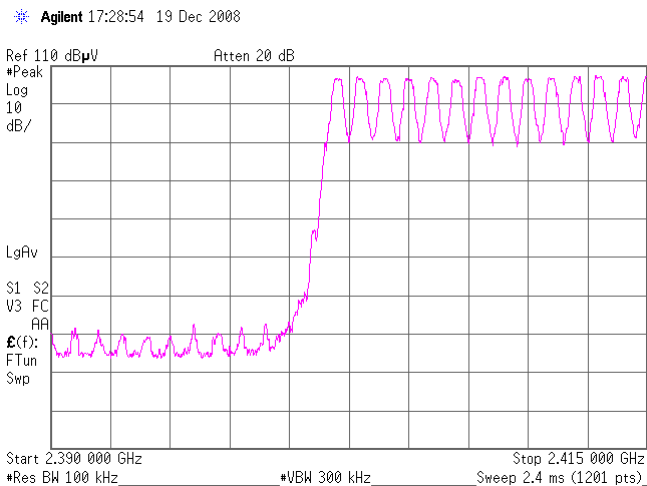
Channel Utilization (Regulation: FCC 15.247(a)(1)(iii))

UL Japan, Inc. Yamakita EMC lab.	No.2	shielded room
Date:	2008/12/19	
Temp./Humid.:	21	deg. C. / 37 %
Engineer:	Makoto Hosaka	
Test mode:	Transmitting	

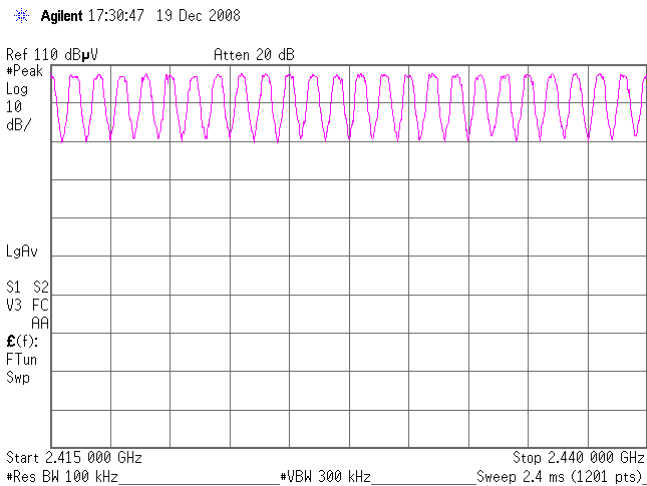
Hopping, DH5: 79ch  
1.



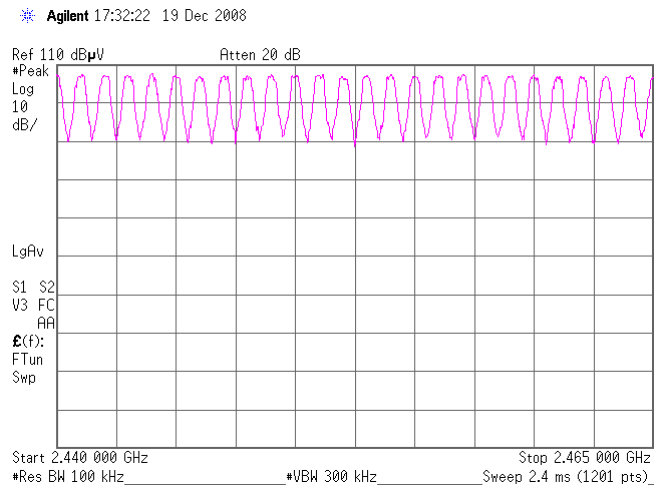
2.



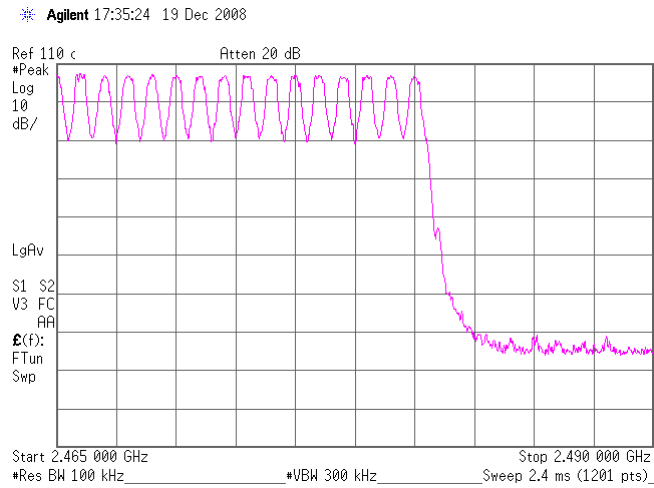
3.



4.

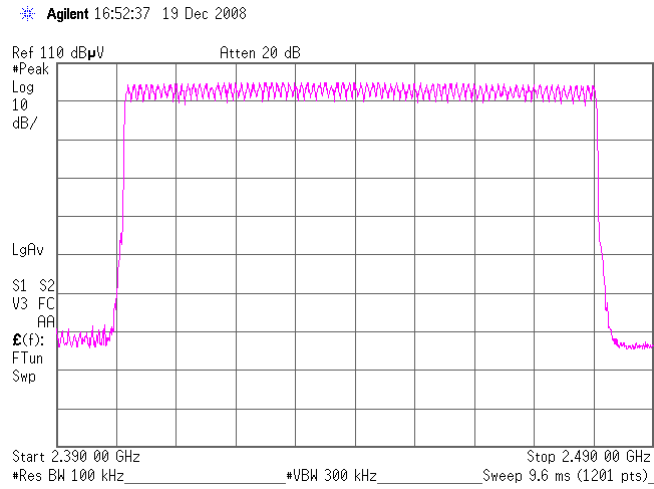


5.

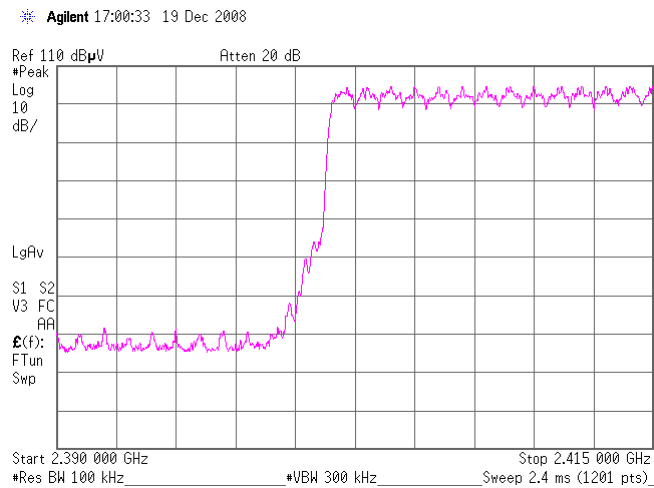


Hopping, 3DH5: 79ch

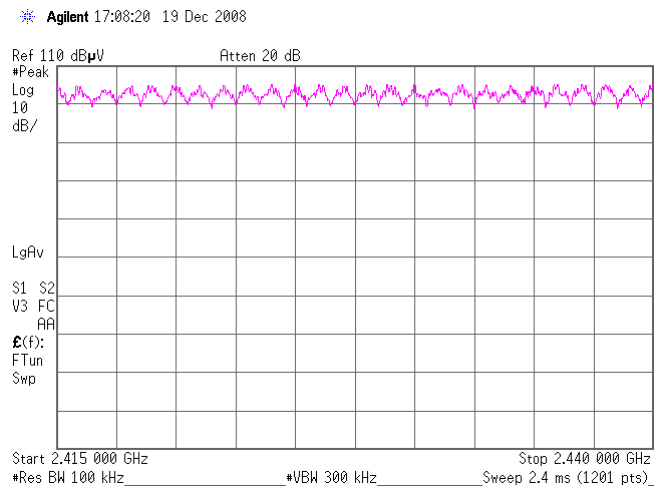
1.



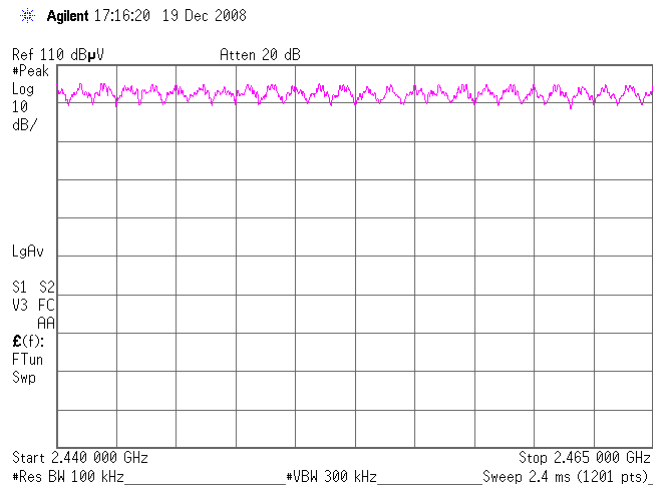
2.



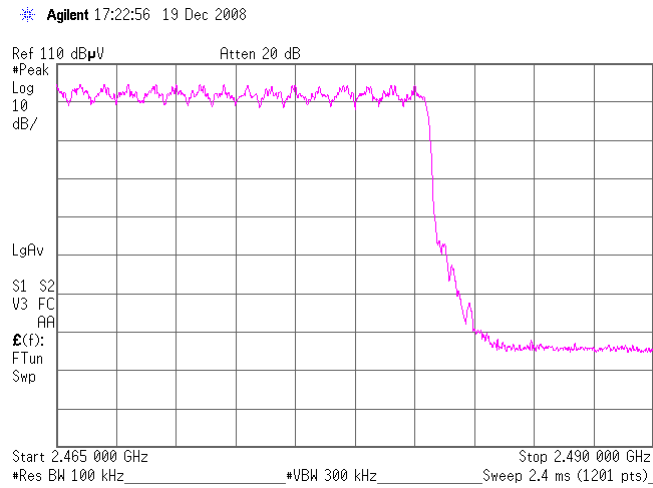
3.



4.



5.





Company: PIONEER CORPORATION  
Kind of Equipment: CD Receiver  
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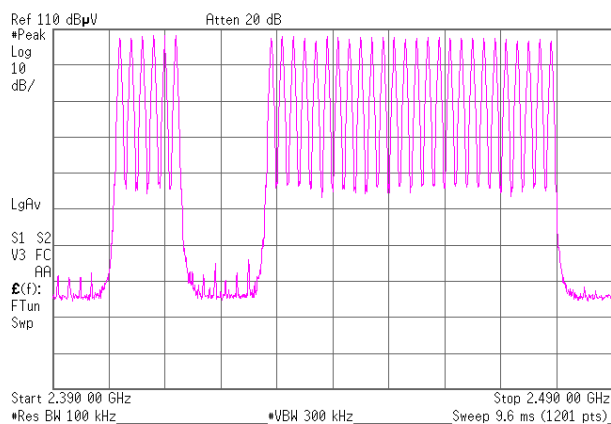
29DE0121-YK-02-A  
DEH-P710BT  
DC 12.0V

UL Japan, Inc. Yamakita EMC lab.  
Date:  
Temp./Humid.:  
Engineer:  
Test mode:

No.1 shielded room  
2008/12/3  
23 deg. C. / 37 %  
Tatsuya Arai  
Transmitting (Inquiry)

## 1. Inquiry: 32ch

✱ Agilent 16:02:30 3 Dec 2008



Company: PIONEER CORPORATION  
Kind of Equipment: CD Receiver  
Serial No.: 5773995

Report No.:  
Model No.:  
Power:

29DE0121-YK-02-A  
DEH-P710BT  
DC 12.0V

### Dwell Time (Regulation: FCC 15.247(a)(1)(iii))

UL Japan, Inc. Yamakita EMC lab.

No.2 shielded room

Date:

2008/12/19

Temp./Humid.:

21 deg. C. / 37 %

Engineer:

Makoto Hosaka

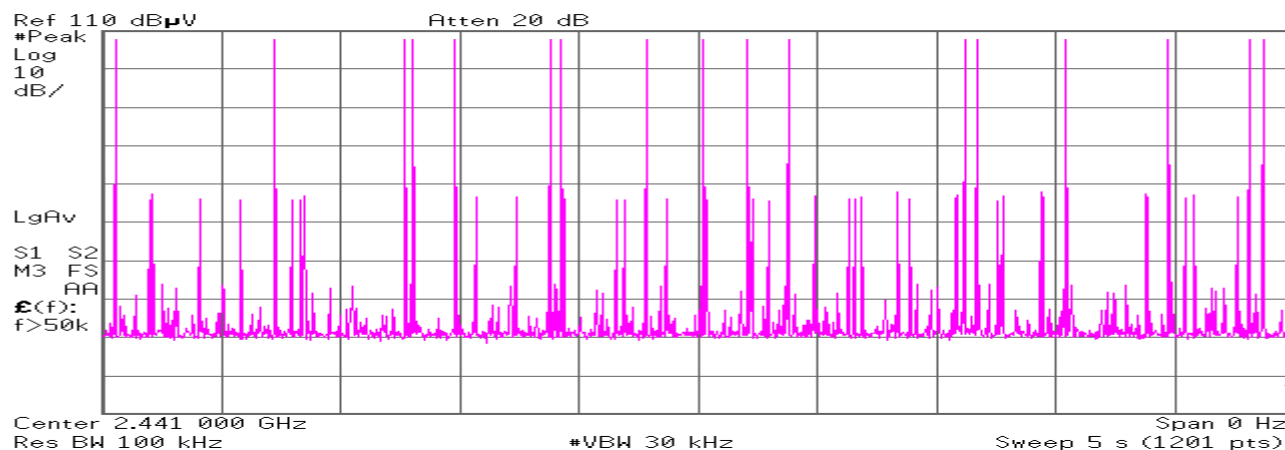
Test mode:

Transmitting

#### Hopping (DH1):

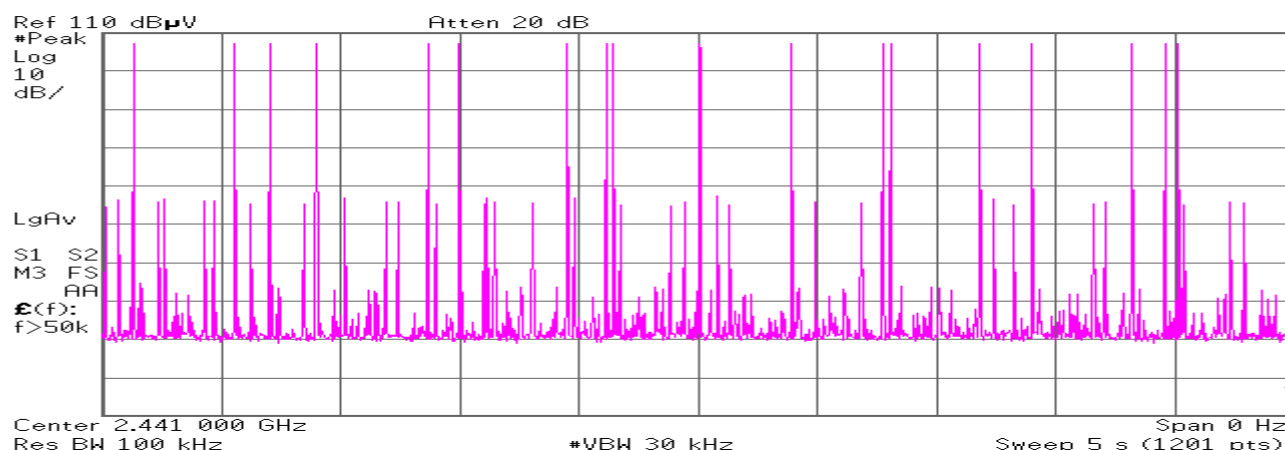
##### Count 1

Agilent 18:10:36 19 Dec 2008



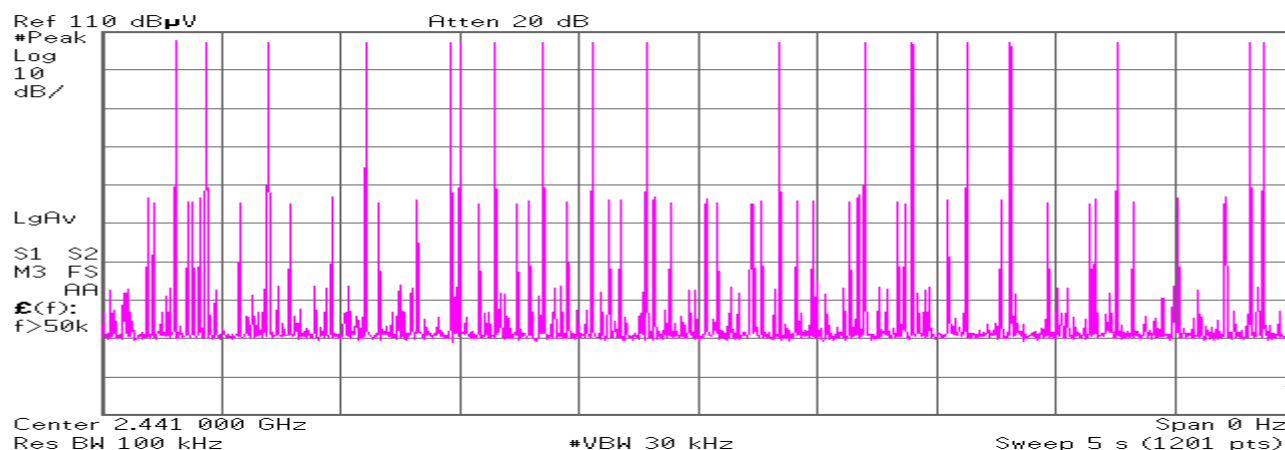
##### Count 2

Agilent 18:11:04 19 Dec 2008



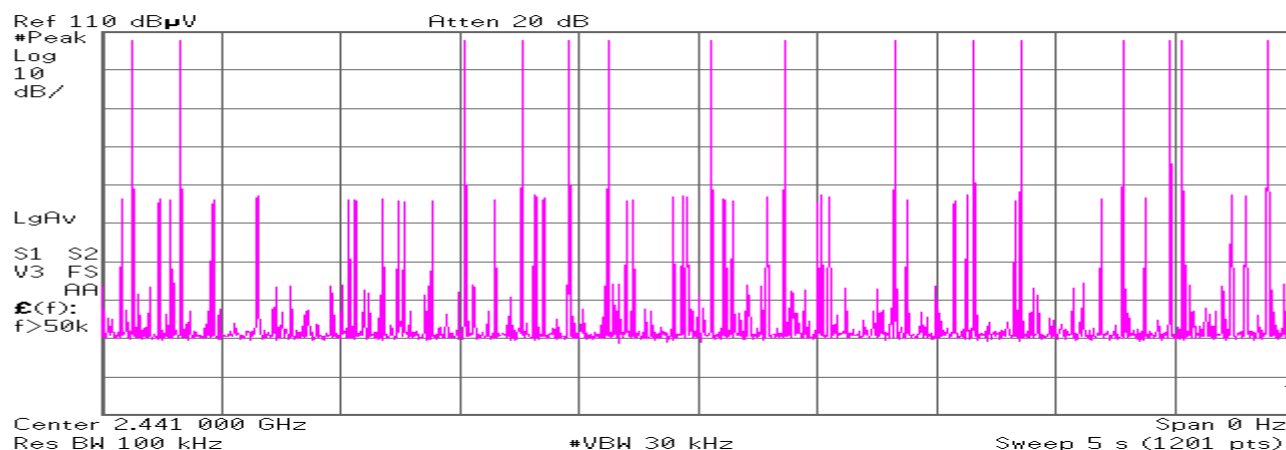
##### Count 3

Agilent 18:11:38 19 Dec 2008



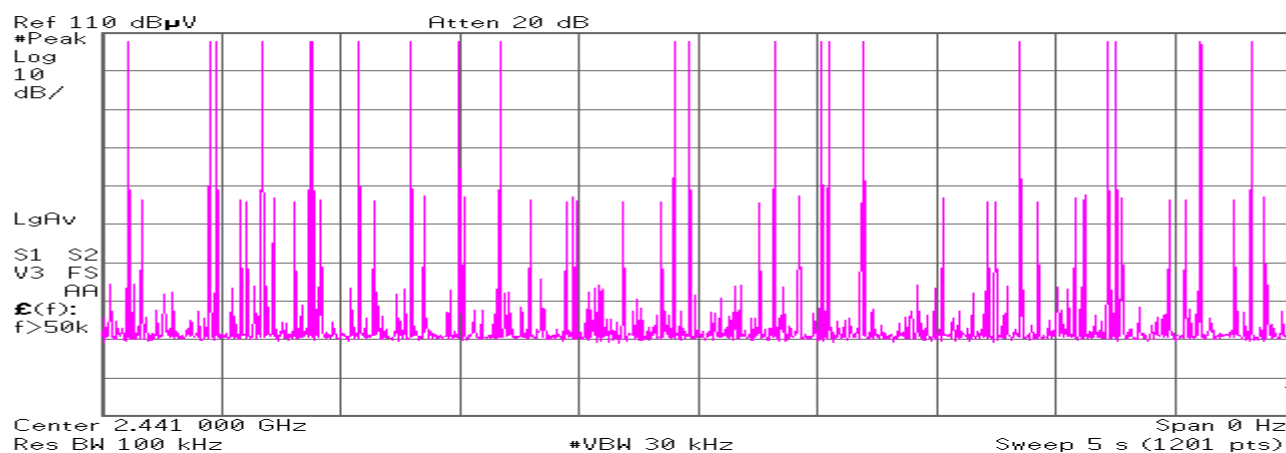
#### Count4

Agilent 18:12:19 19 Dec 2008

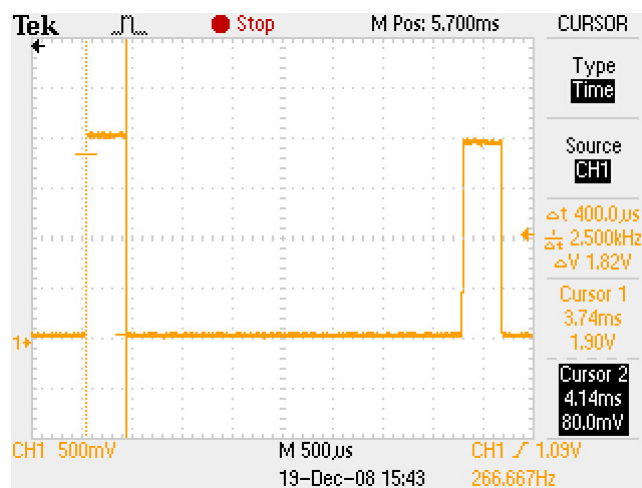


#### Count5

Agilent 18:13:02 19 Dec 2008



#### Duty cycle(Hopping DH1)



Average times of rising in 5 sec. of sweep =  $(17 + 18 + 18 + 15 + 20) / 5 = 17.6$

Average times of rising in 1 sec. =  $17.6 / 5s = 3.52$

Average times of rising in 0.4x =  $0.4 * 79ch * 3.52 = 111.232$

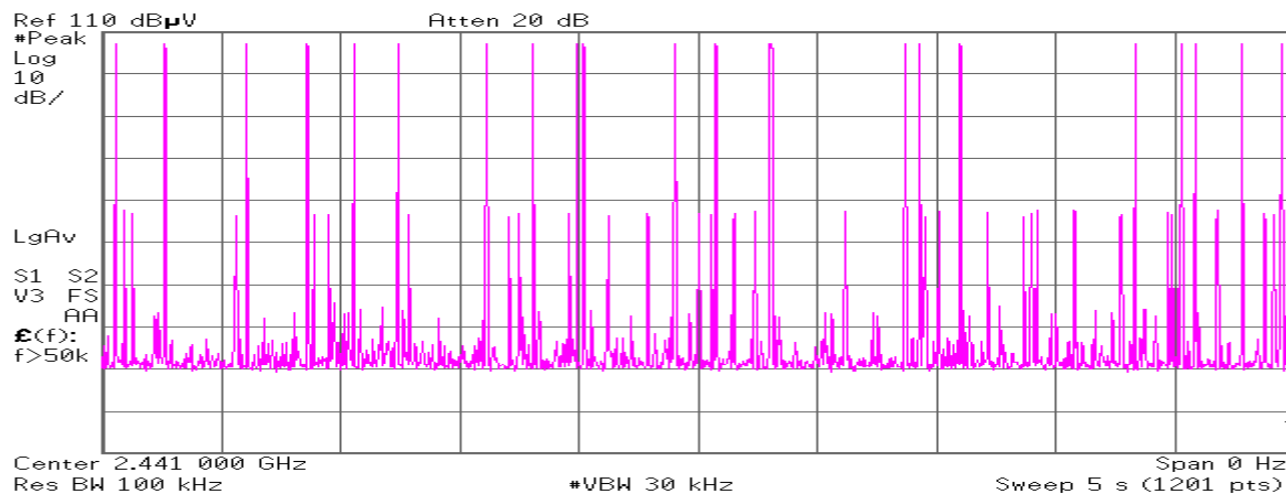
Dwell time =  $111.23 * 0.400 = 44.492 [ms]$

Limit : Dwell Time < 0.4[s]

### Hopping (DH3):

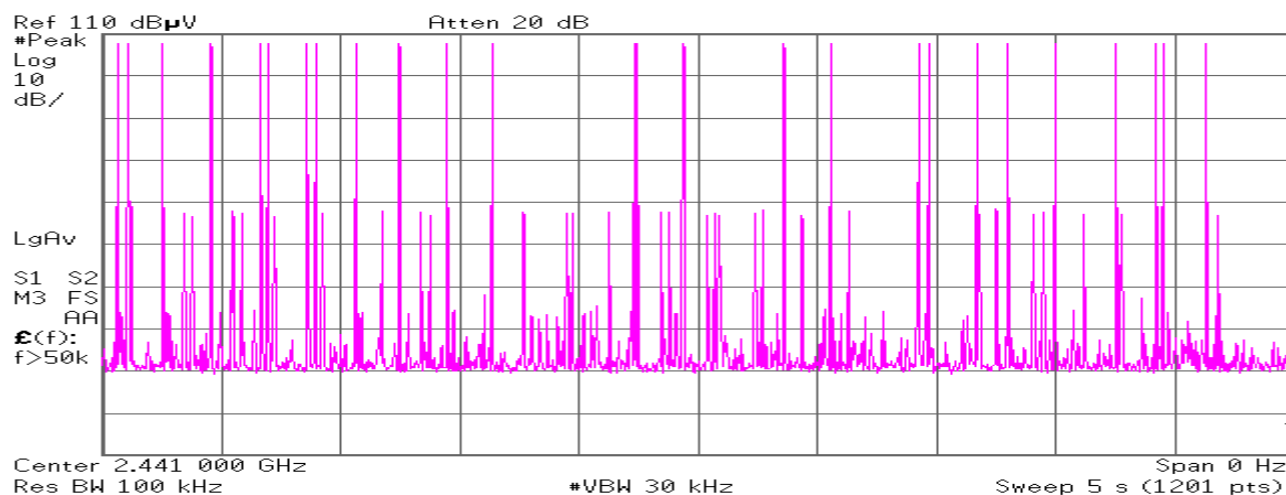
#### Count 1

Agilent 18:25:05 19 Dec 2008



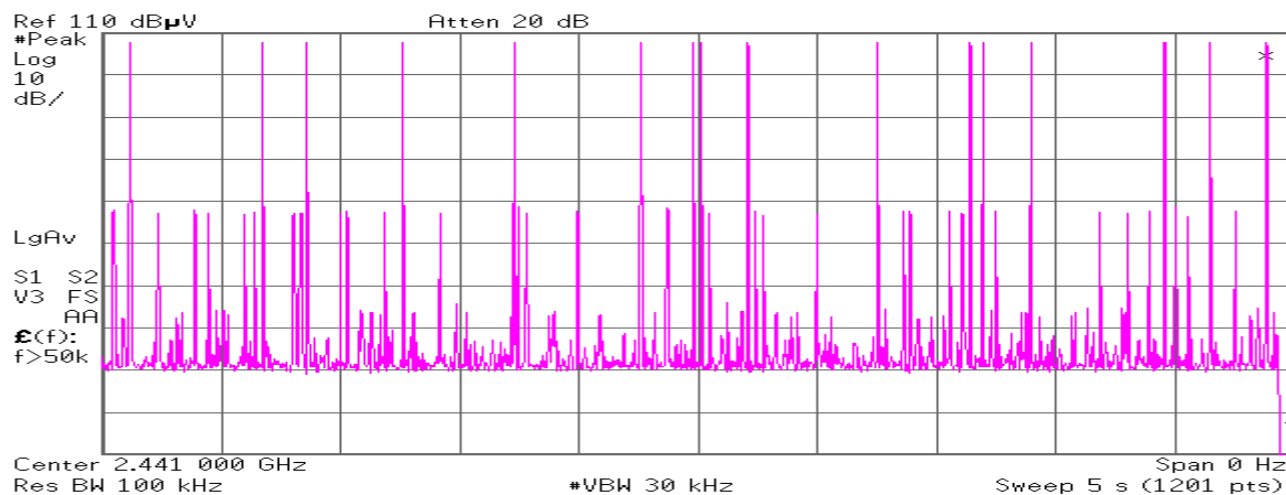
#### Count 2

Agilent 18:25:42 19 Dec 2008



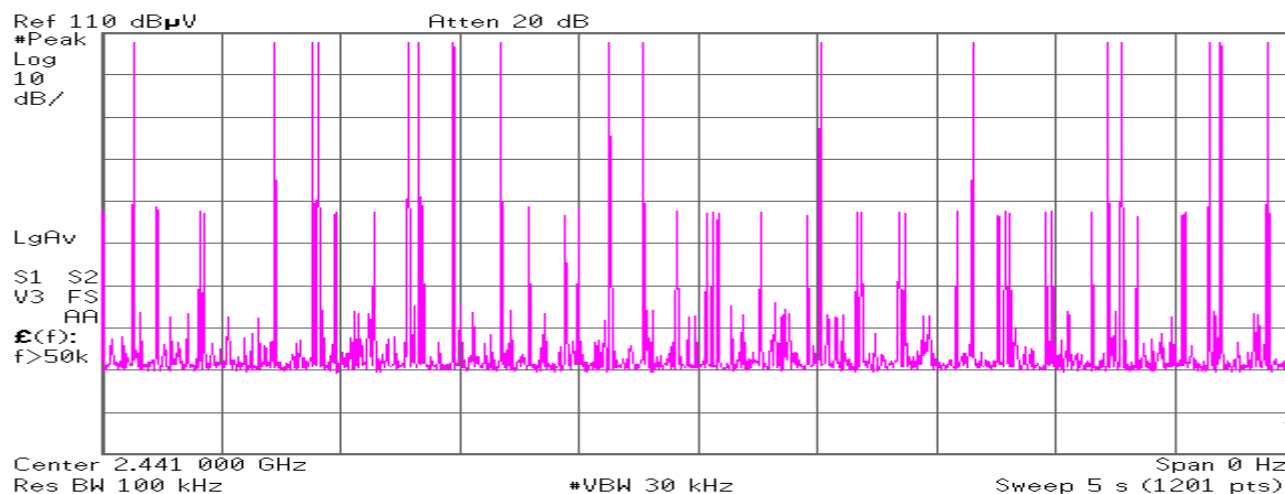
#### Count 3

Agilent 18:26:29 19 Dec 2008



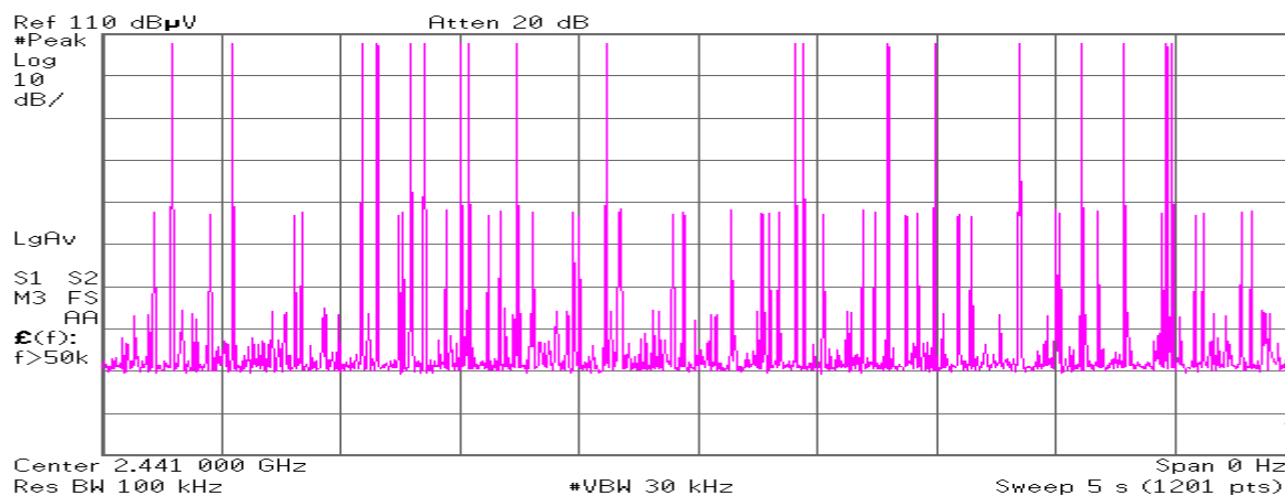
#### Count4

Agilent 18:26:55 19 Dec 2008

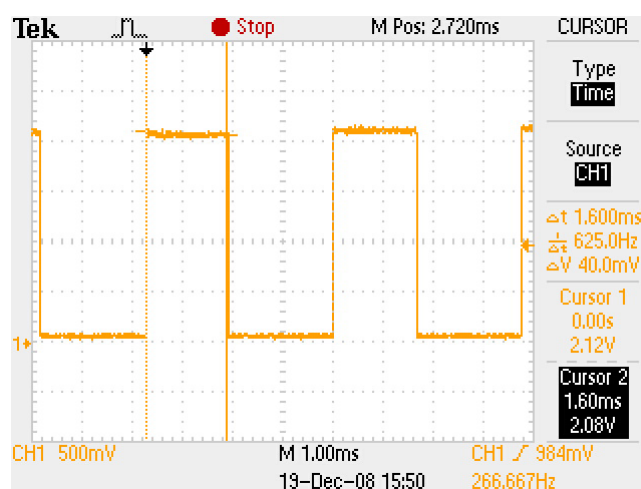


#### Count5

Agilent 18:27:24 19 Dec 2008



#### Duty cycle(Hopping DH3)



Average times of rising in 5 sec. of sweep =  $(22 + 25 + 16 + 17 + 19) / 5 = 19.8$

Average times of rising in 1 sec. =  $19.8 / 5s = 3.96$

Average times of rising in 0.4x =  $0.4 * 79ch * 3.96 = 125.14$

Dwell time =  $125.14 * 1.6 = 200.22 [ms]$

Limit : Dwell Time < 0.4[s]

Company: PIONEER CORPORATION  
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Serial No.: 5773995

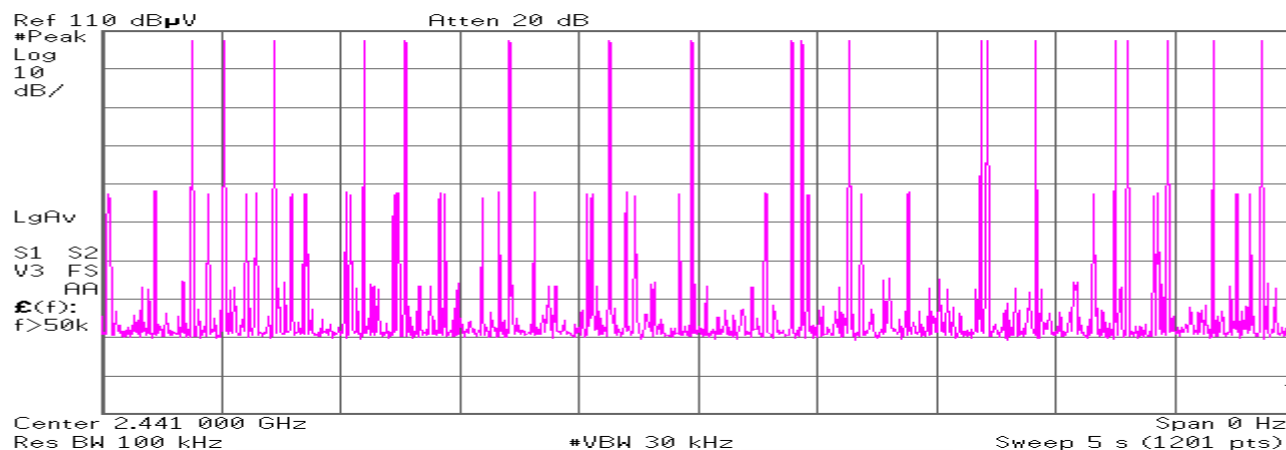
Report No.:  
Model No.:  
Power:

29DE0121-YK-02-A  
DEH-P710BT  
DC 12.0V

### Hopping (DHS):

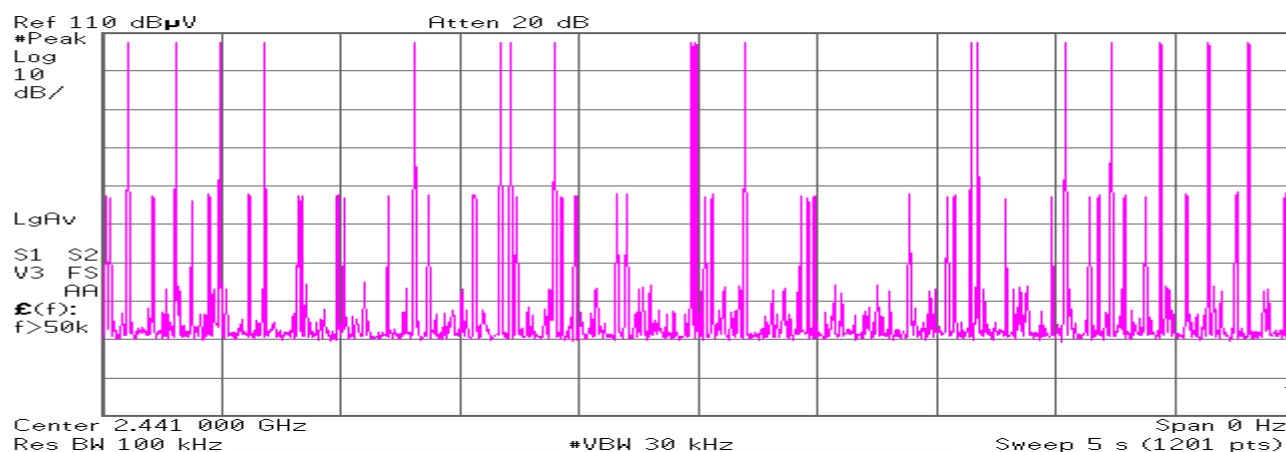
#### Count 1

Agilent 17:59:18 19 Dec 2008



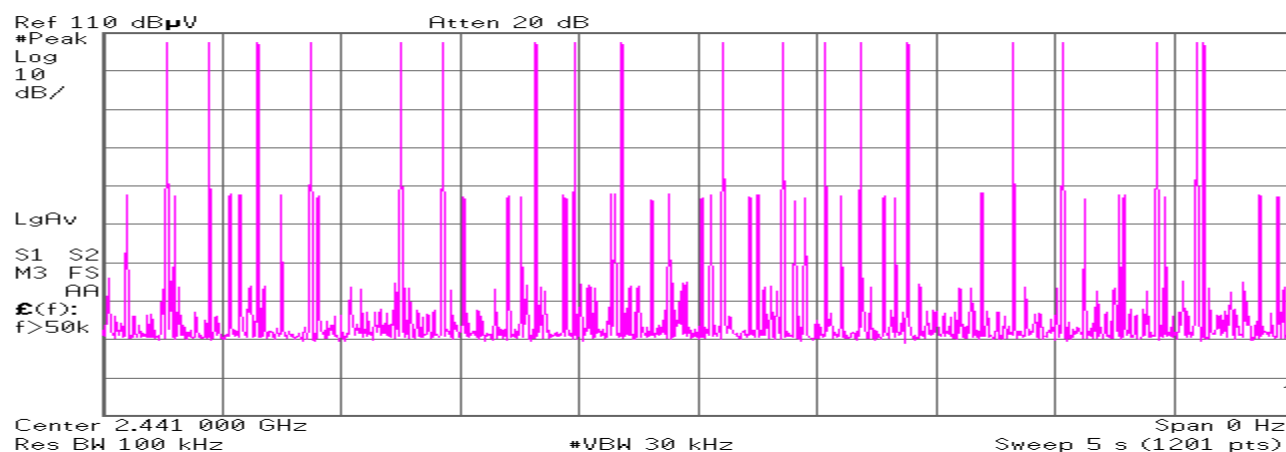
#### Count 2

Agilent 17:59:58 19 Dec 2008



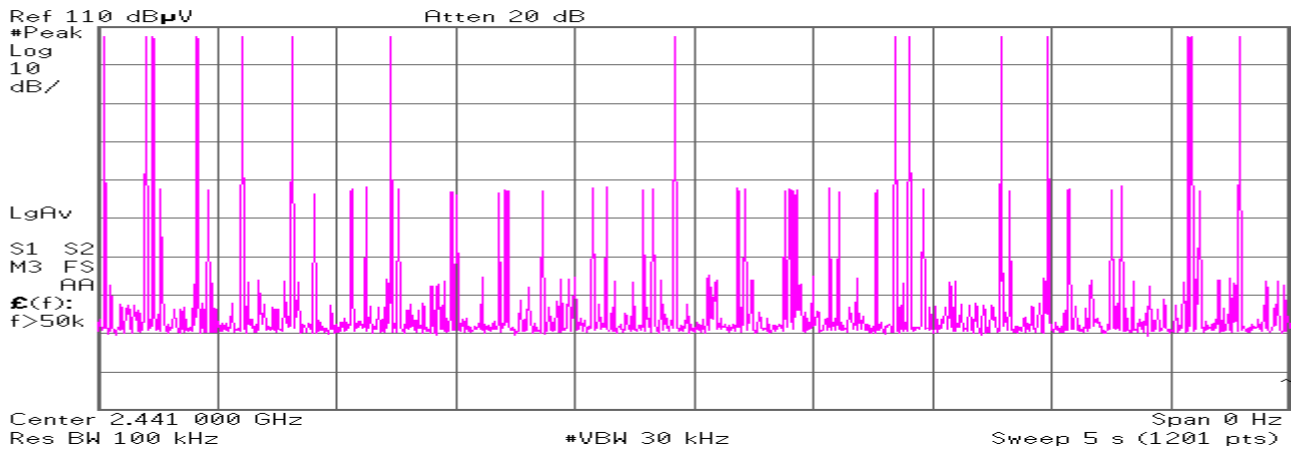
#### Count 3

Agilent 18:00:44 19 Dec 2008



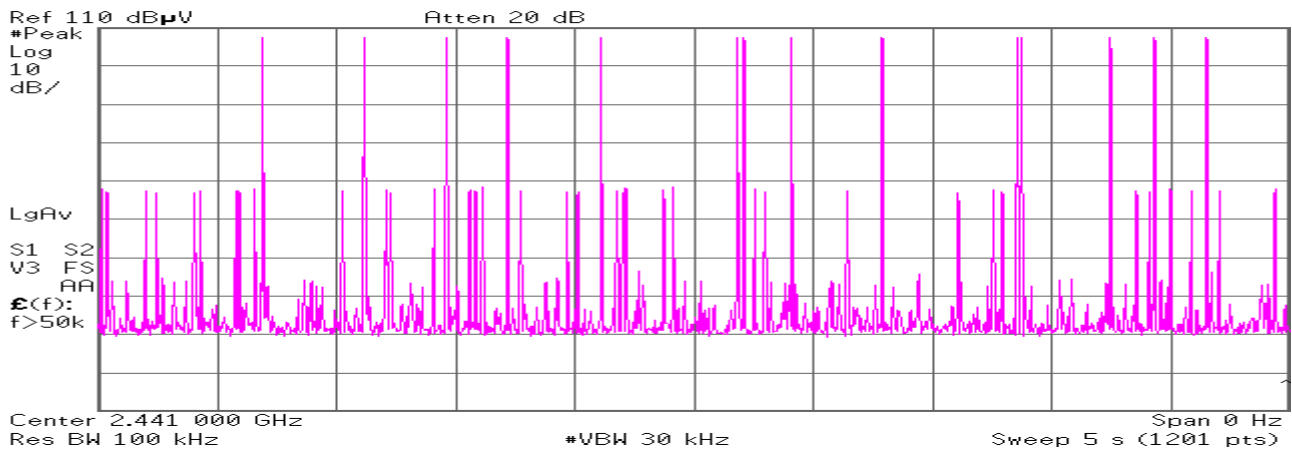
#### Count4

Agilent 18:01:10 19 Dec 2008

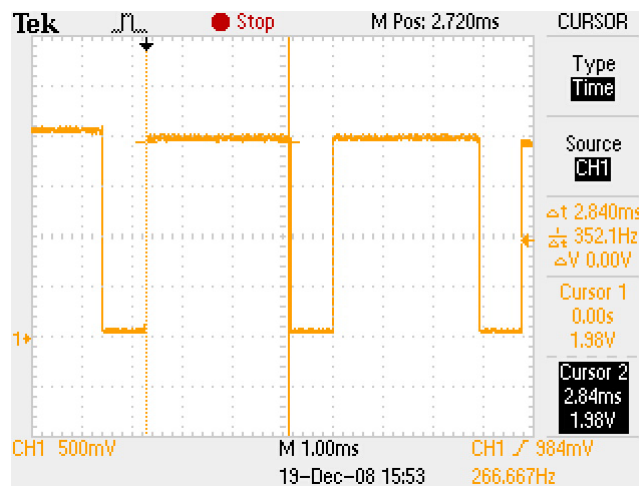


#### Count5

Agilent 18:01:41 19 Dec 2008



#### Duty cycle(Hopping DH5)



Average times of rising in 5 sec. of sweep =  $(19 + 17 + 19 + 14 + 14) / 5 = 16.6$

Average times of rising in 1 sec. =  $16.6 / 5s = 3.32$

Average times of rising in 0.4x =  $0.4 * 79ch * 3.32 = 104.912$

Dwell time =  $104.91 * 2.84 = 297.944$  [ms]

Limit : Dwell Time < 0.4[s]

Company: PIONEER CORPORATION  
Kind of Equipment: CD Receiver  
Serial No.: 5773995

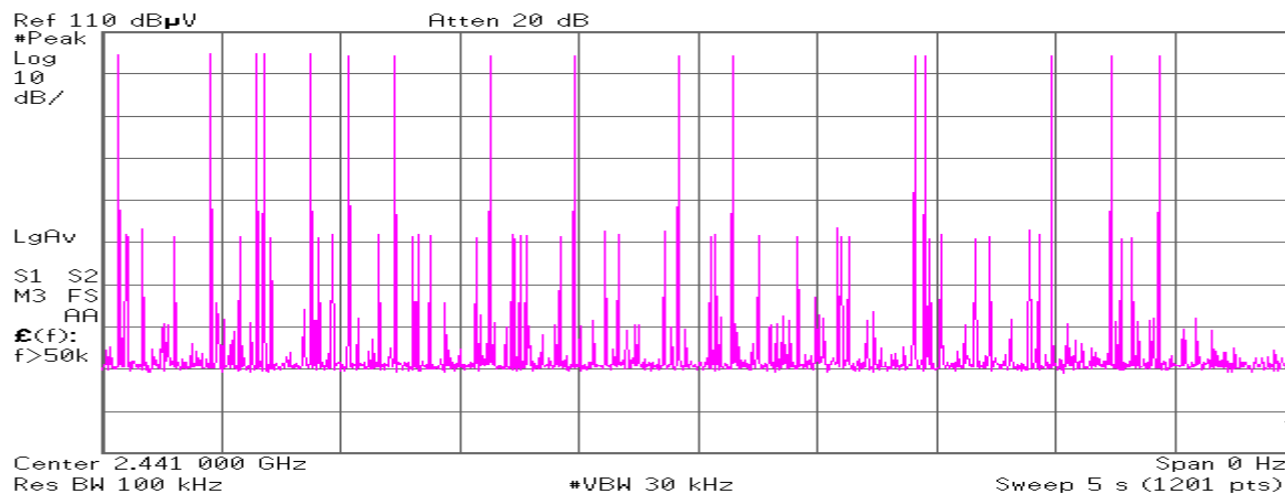
Report No.:  
Model No.:  
Power:

29DE0121-YK-02-A  
DEH-P710BT  
DC 12.0V

### Hopping (3DH1):

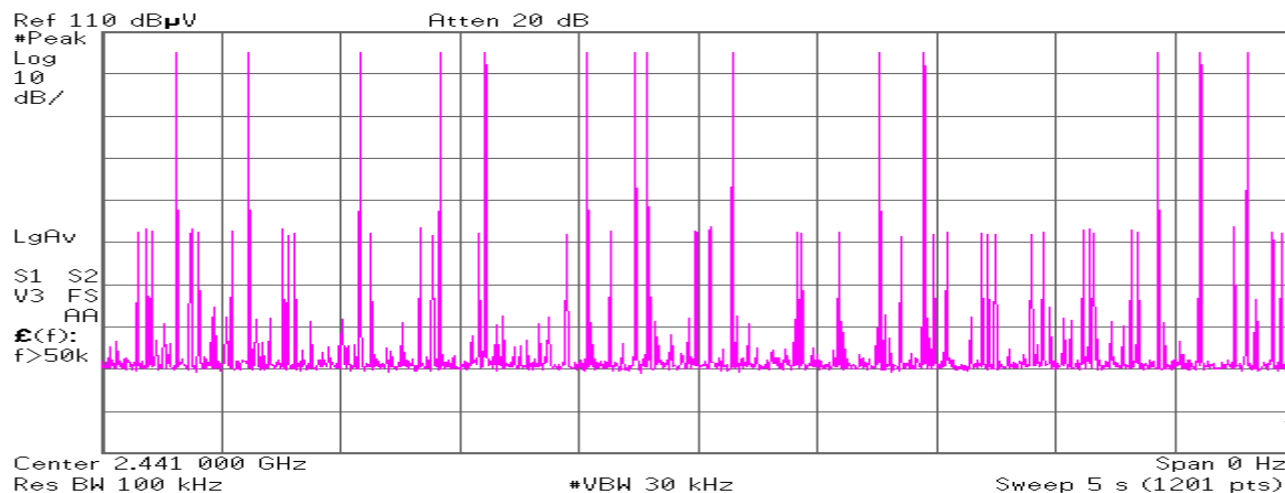
#### Count 1

Agilent 18:30:23 19 Dec 2008



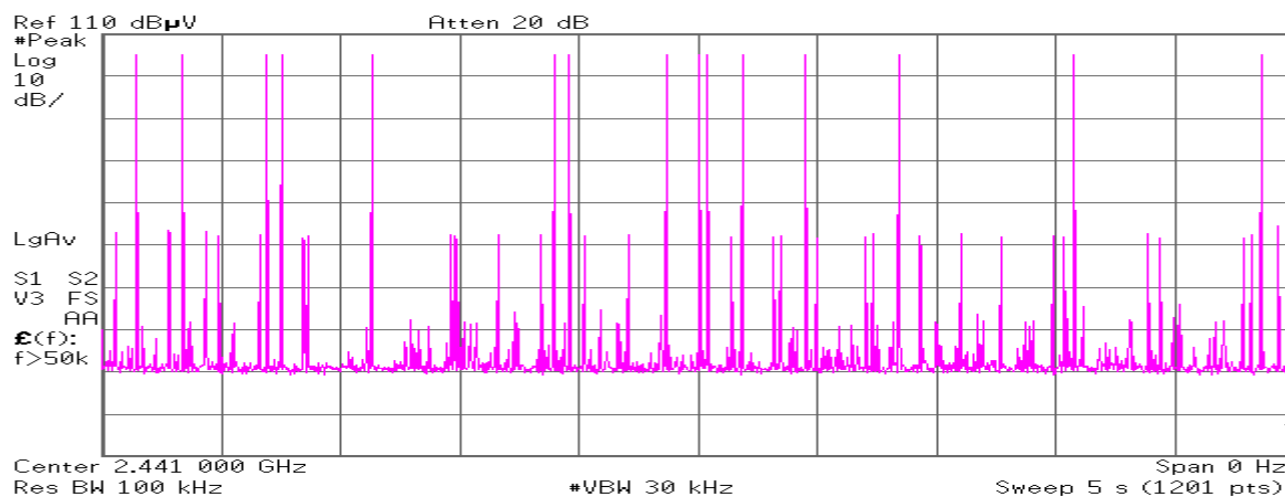
#### Count 2

Agilent 18:30:43 19 Dec 2008



#### Count 3

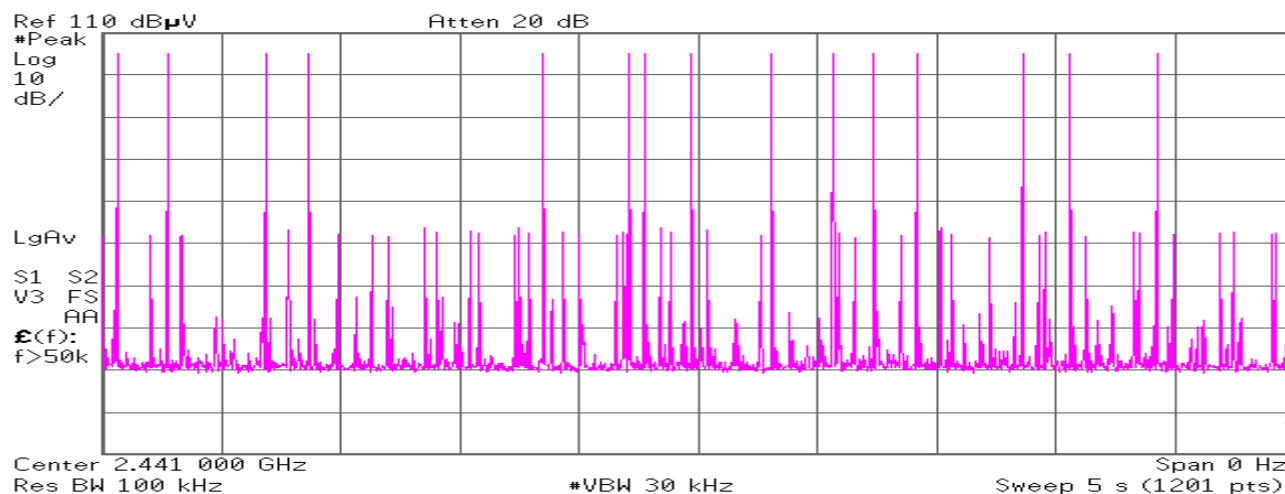
Agilent 18:31:06 19 Dec 2008





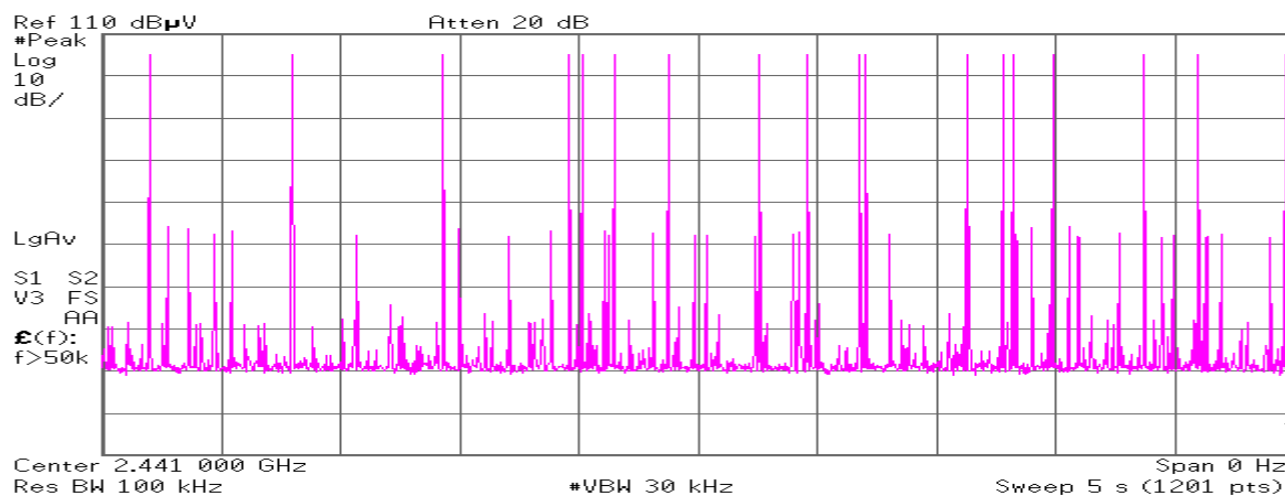
#### Count4

Agilent 18:31:35 19 Dec 2008



#### Count5

Agilent 18:32:27 19 Dec 2008



#### Duty cycle(Hopping 3DH1)



Average times of rising in 5 sec. of sweep =  $(16 + 14 + 15 + 16 + 18) / 5 = 15.8$

Average times of rising in 1 sec. =  $15.8 / 5s = 3.16$

Average times of rising in 0.4x =  $0.4 * 79ch * 3.16 = 99.86$

Dwell time =  $99.86 * 0.38 = 37.95$  [ms]

Limit : Dwell Time < 0.4[s]

Company: PIONEER CORPORATION  
Kind of Equipment: CD Receiver  
Serial No.: 5773995

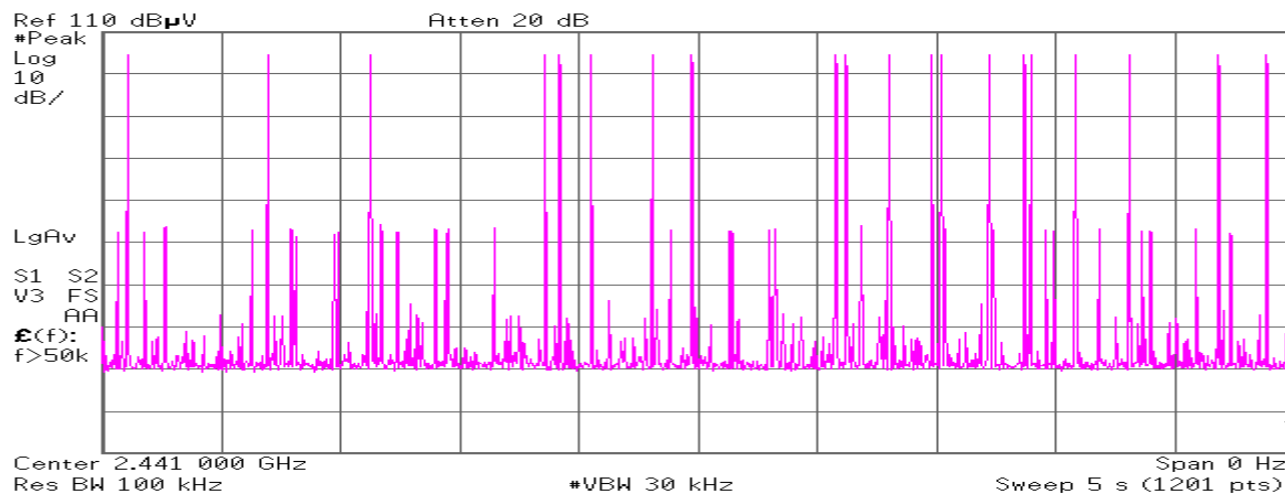
Report No.:  
Model No.:  
Power:

29DE0121-YK-02-A  
DEH-P710BT  
DC 12.0V

### Hopping (3DH3):

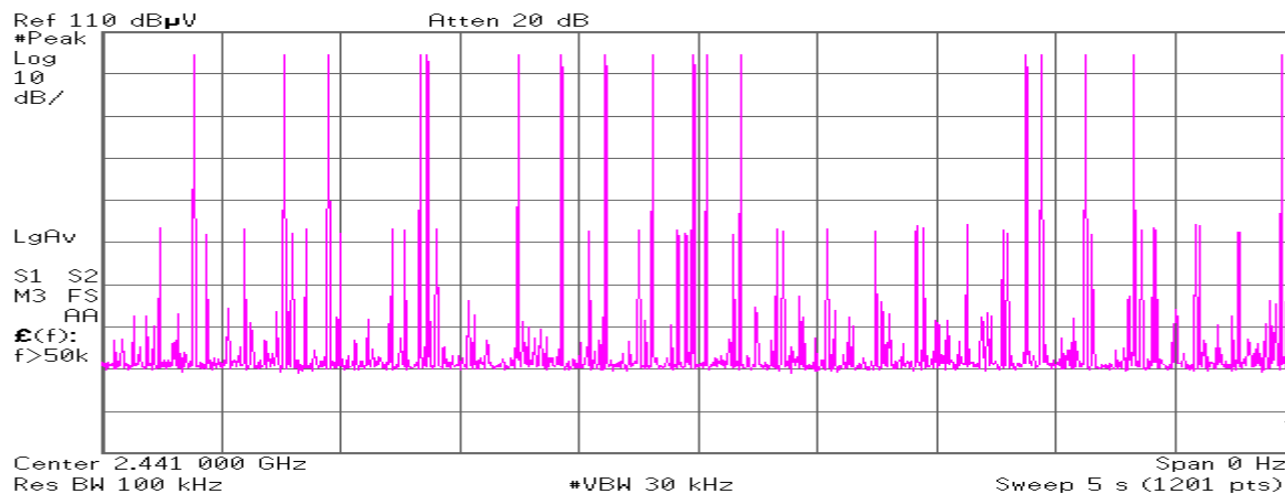
#### Count 1

Agilent 18:34:34 19 Dec 2008



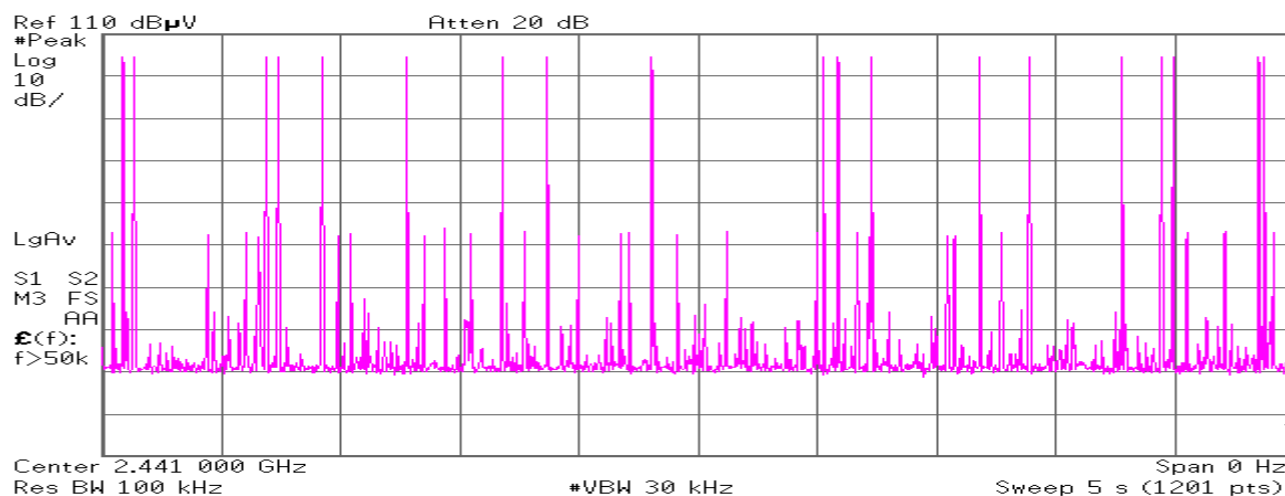
#### Count 2

Agilent 18:35:06 19 Dec 2008



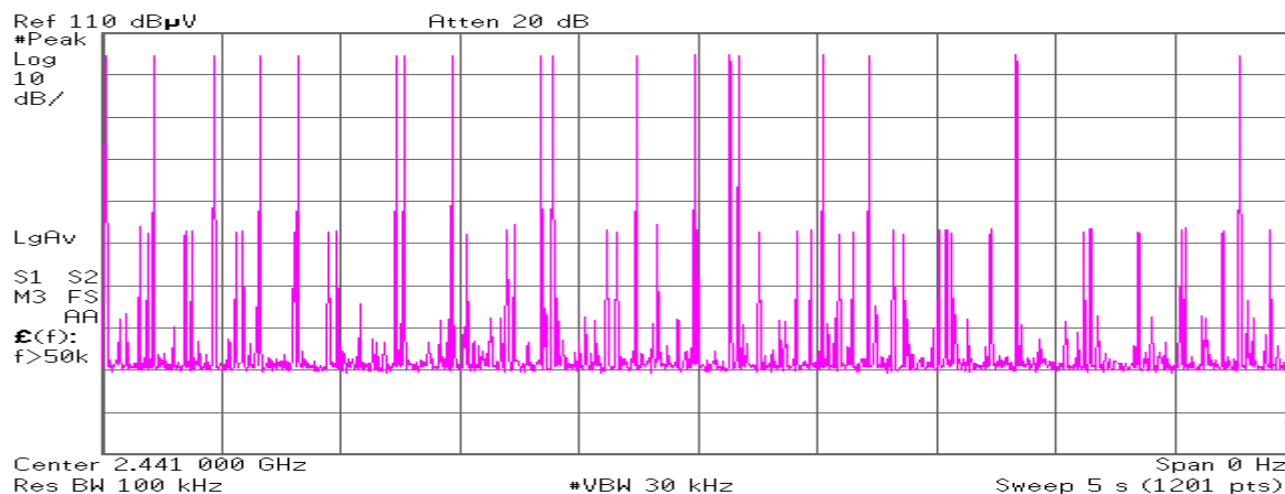
#### Count 3

Agilent 18:35:41 19 Dec 2008



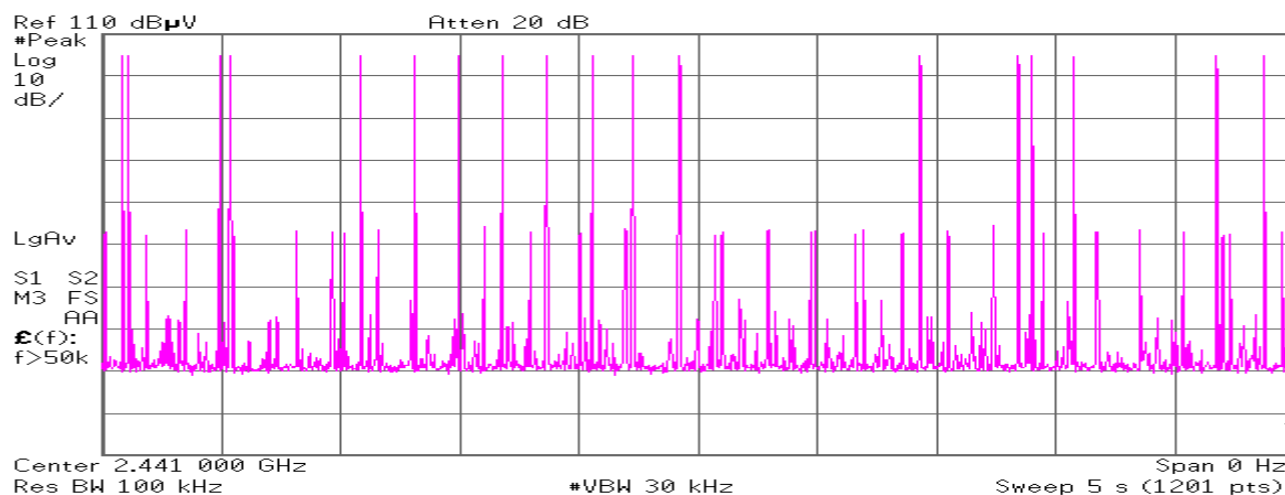
#### Count4

Agilent 18:36:18 19 Dec 2008

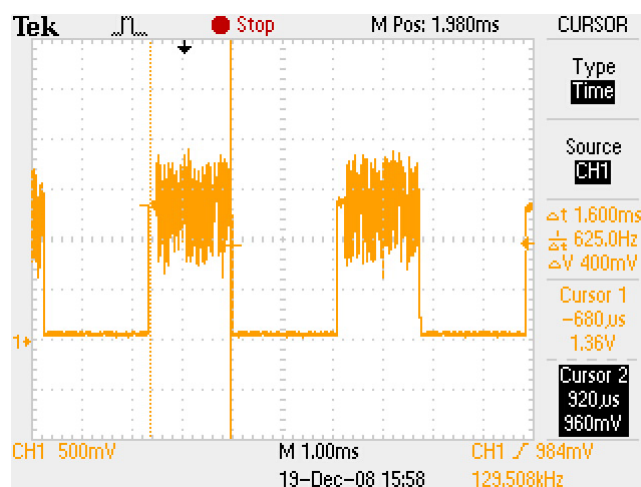


#### Count5

Agilent 18:36:58 19 Dec 2008



#### Duty cycle(Hopping 3DH3)



Average times of rising in 5 sec. of sweep =  $(20 + 17 + 19 + 18 + 18) / 5 = 18.4$

Average times of rising in 1 sec. =  $18.4 / 5s = 3.68$

Average times of rising in 0.4x =  $0.4 * 79ch * 3.68 = 116.29$

Dwell time =  $116.29 * 1.60 = 186.04 [ms]$

Limit : Dwell Time < 0.4[s]

Company: PIONEER CORPORATION  
Kind of Equipment: CD Receiver  
Serial No.: 5773995

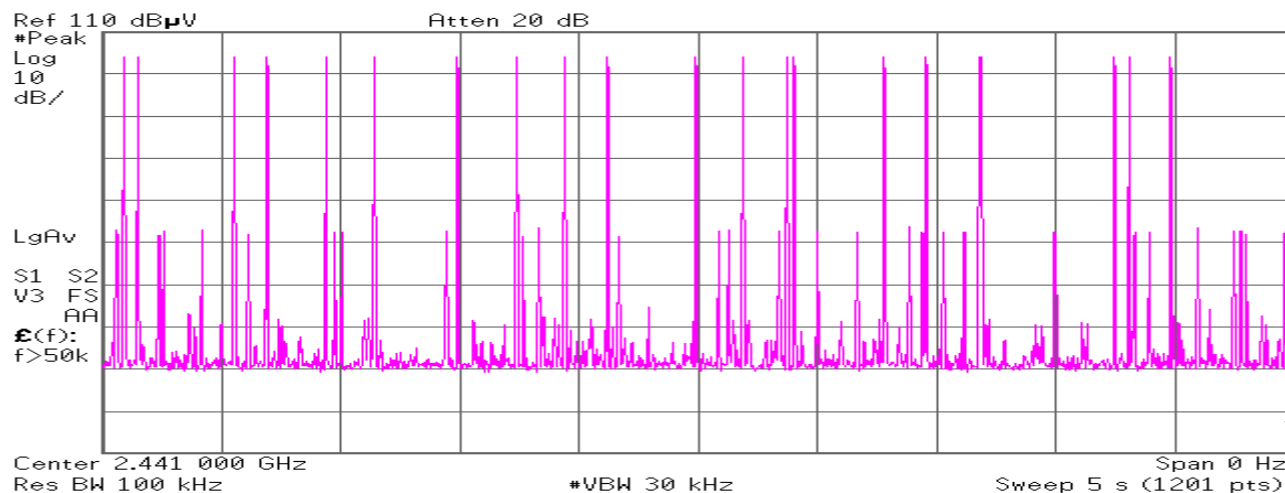
Report No.:  
Model No.:  
Power:

29DE0121-YK-02-A  
DEH-P710BT  
DC 12.0V

### Hopping (3DH5):

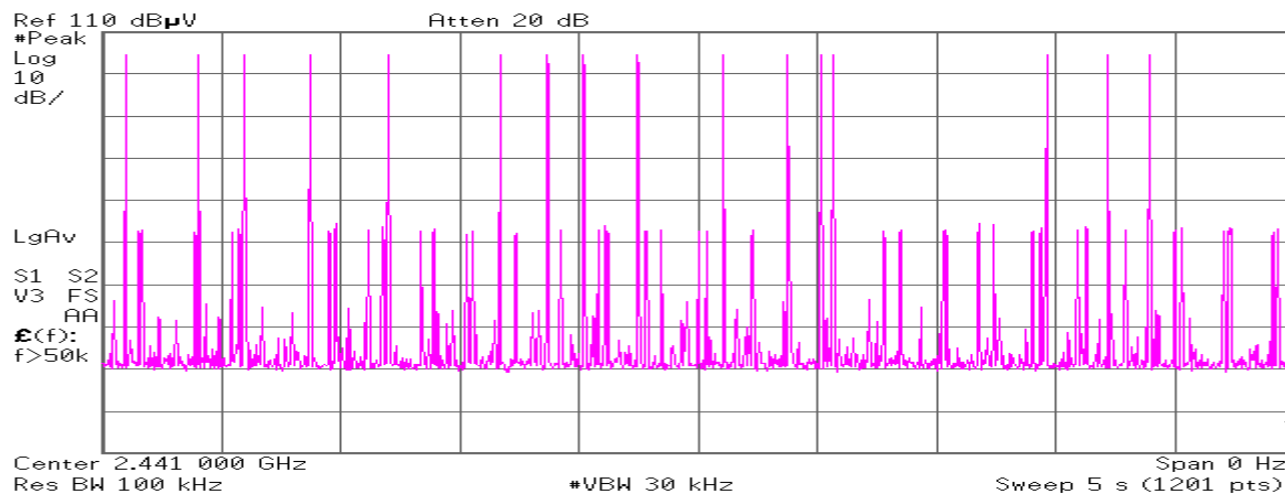
#### Count 1

Agilent 18:38:45 19 Dec 2008



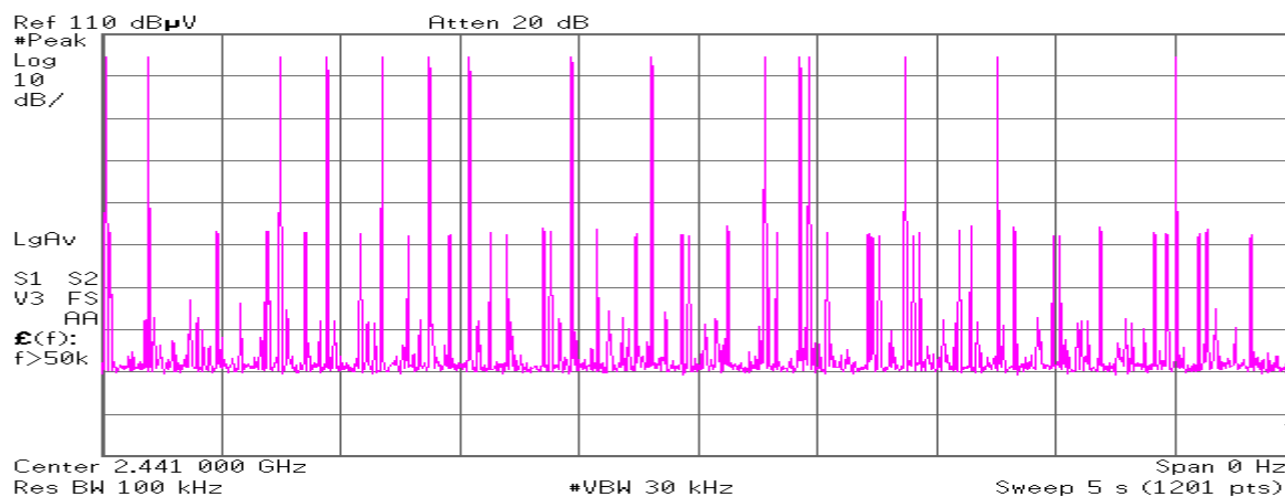
#### Count 2

Agilent 18:39:07 19 Dec 2008



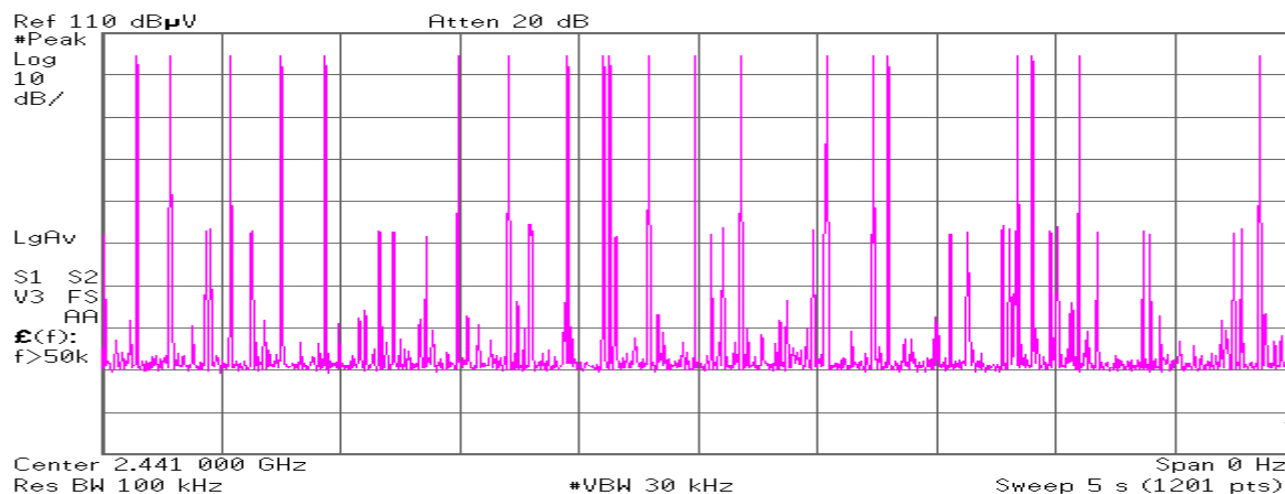
#### Count 3

Agilent 18:39:38 19 Dec 2008



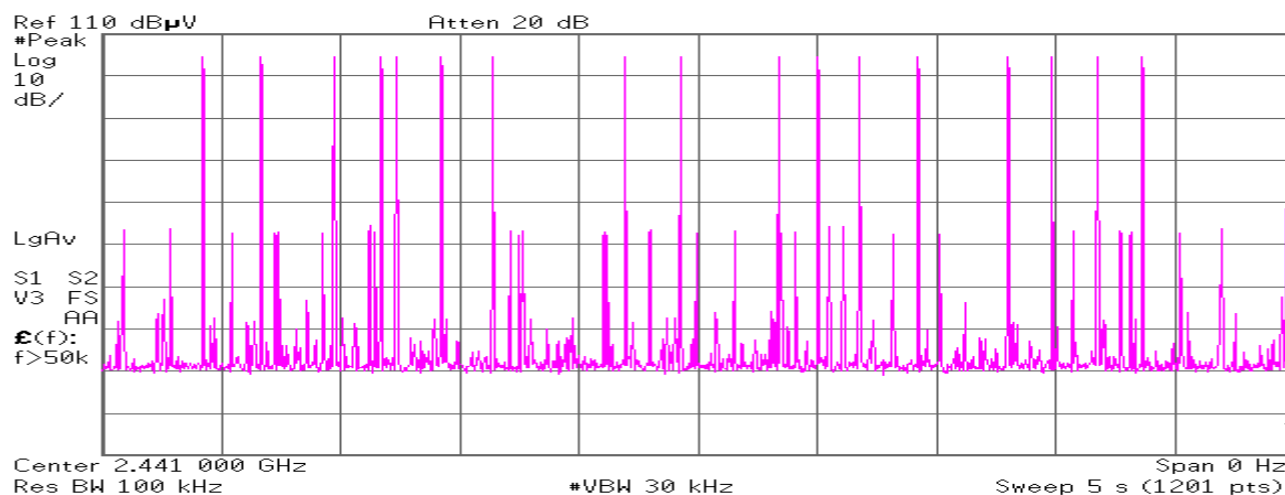
#### Count4

Agilent 18:40:04 19 Dec 2008

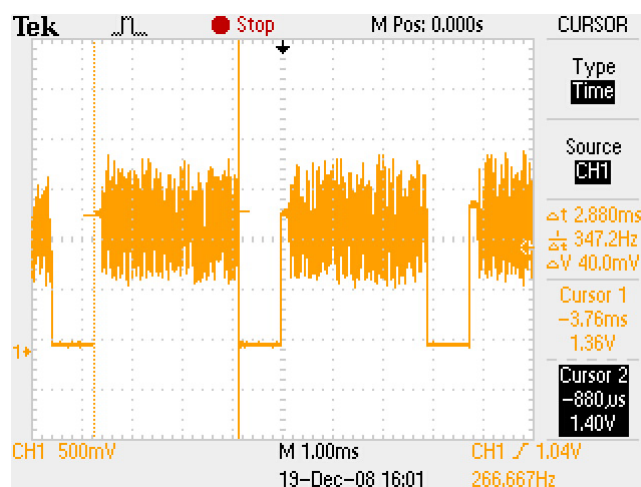


#### Count5

Agilent 18:40:32 19 Dec 2008



#### Duty cycle(Hopping 3DH5)



Average times of rising in 5 sec. of sweep =  $(20 + 16 + 15 + 20 + 18) / 5 = 17.8$

Average times of rising in 1 sec. =  $17.8 / 5s = 3.56$

Average times of rising in 0.4x =  $0.4 * 79ch * 3.56 = 112.50$

Dwell time =  $112.50 * 2.88 = 324 [ms]$

Limit : Dwell Time < 0.4[s]

Company: PIONEER CORPORATION  
Kind of Equipment: CD Receiver  
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Power:

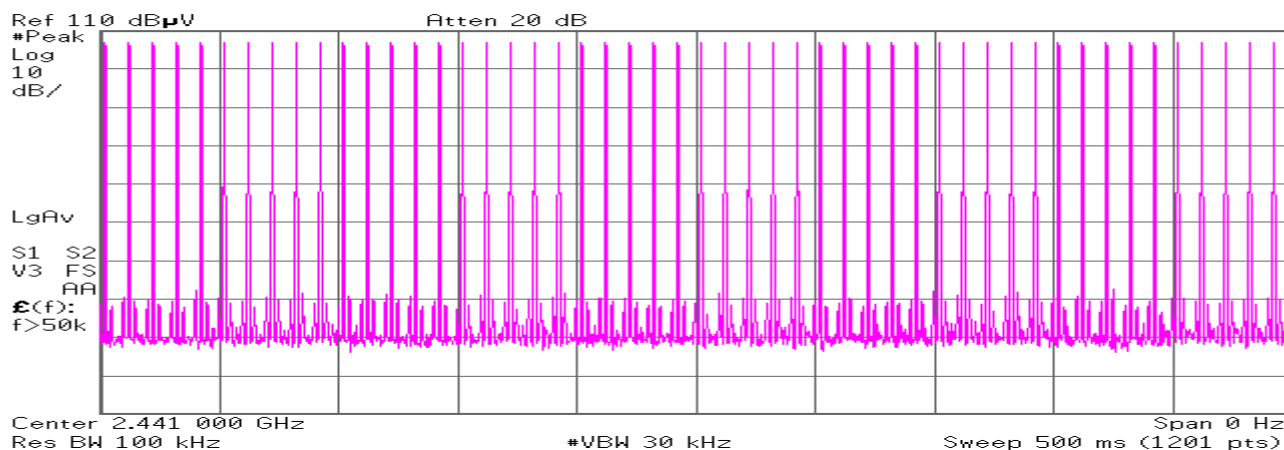
29DE0121-YK-02-A  
DEH-P710BT  
DC 12.0V

UL Japan, Inc. Yamakita EMC lab. 1 shielded room  
Date: 2008/11/6  
Temp./Humid.: 22 deg. C. / 58 %  
Engineer: Tatsuya Arai  
Test mode: Transmitting (Inquiry)

### Inquiry:

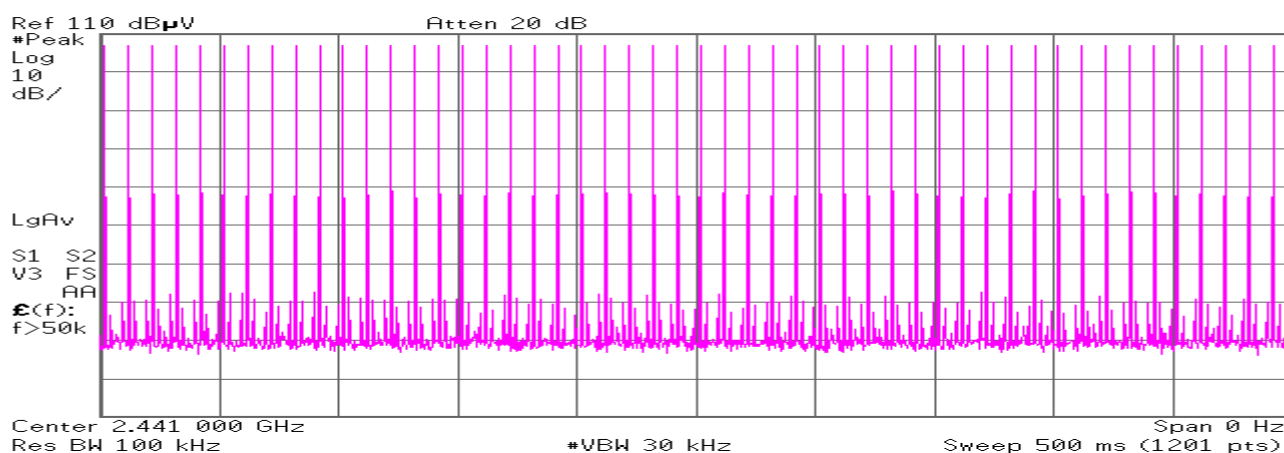
#### Count 1

Agilent 19:14:37 19 Dec 2008



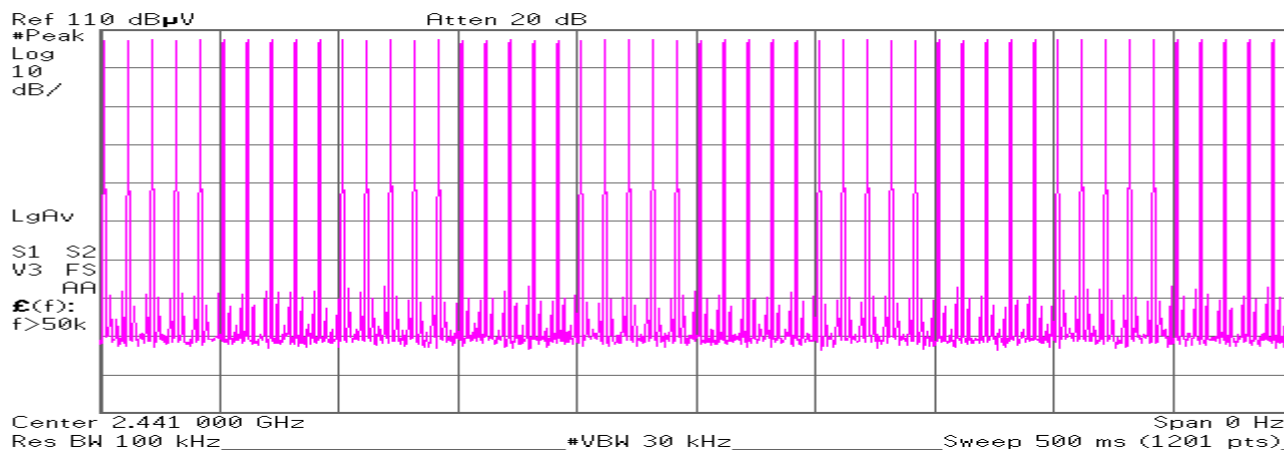
#### Count2

Agilent 19:15:08 19 Dec 2008



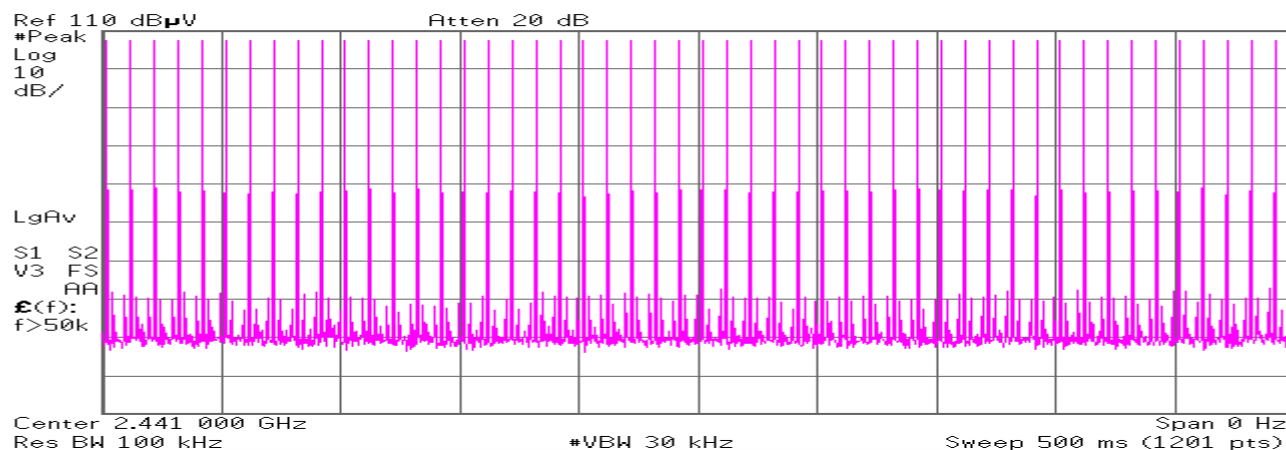
#### Count3

Agilent 19:15:51 19 Dec 2008



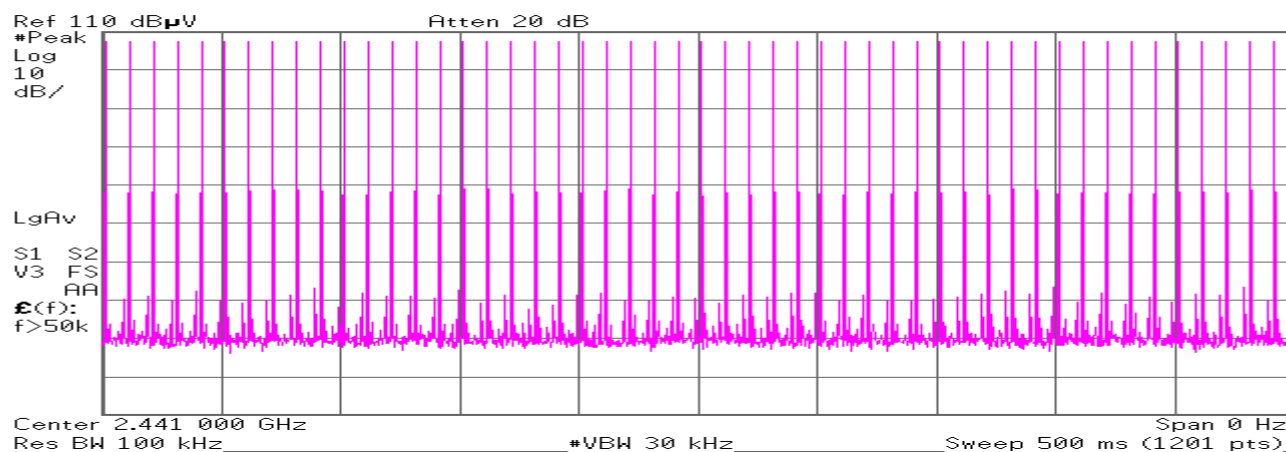
#### Count4

Agilent 19:16:13 19 Dec 2008

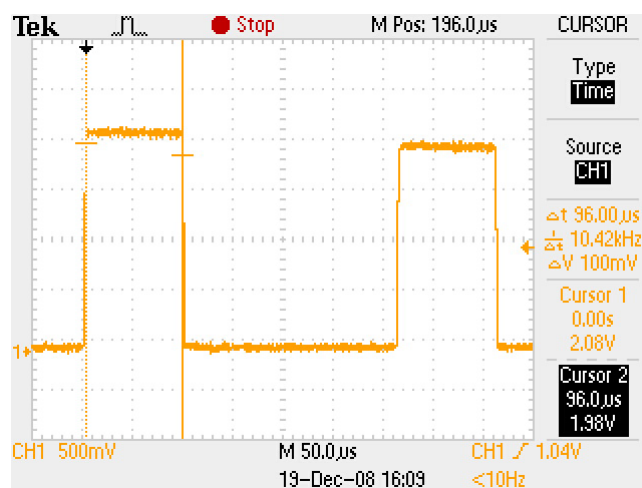


#### Count5

Agilent 19:16:48 19 Dec 2008



#### Duty cycle(Inquiry)



Average times of rising in 0.5 sec. of sweep =  $(50 + 50 + 50 + 50 + 50) / 5 = 50.0$

Average times of rising in 1 sec. =  $50.0 / 0.5s = 100.0$

Average times of rising in 0.4x =  $0.4 * 32ch * 100.0 = 1280.0$

Dwell time =  $1280.0 * 0.096 = 122.88 [ms]$

Limit : Dwell Time < 0.4[s]

Company: PIONEER CORPORATION  
Kind of Equipment: CD Receiver  
Serial No.: 5773995

Report No.: 29DE0121-YK-02-A  
Model No.: DEH-P710BT  
Power: DC 12.0V

## **Maximum Peak Conducted Output Power (Regulation: FCC 15.247(b)(1))**

UL Japan, Inc Yamakita EMC lab.  
No.1 Shielded Room

DATE: 2008/12/3  
TEMP./HUMID.: 23deg.C/36%  
TEST MODE: Transmitting

ENGINEER: Tatsuya Arai

### **DH5**

CH	FREQ [GHz]	P/M Reading [dBm]	Cable Loss [dB]	Results [dBm]	Limit (125mW) [dBm]	MARGIN [dB]
Low	2402.00	0.47	0.30	0.77	20.96	20.19
Mid	2441.00	0.60	0.30	0.90	20.96	20.06
High	2480.00	-0.46	0.30	-0.16	20.96	21.12
Inquiry	-	0.98	0.30	1.28	20.96	19.68

Limit: 125mW=20.96dBm

P/M: Power Meter

CABLE LOSS:Customer's cable + KCC-D20

### **2DH5**

CH	FREQ [GHz]	P/M Reading [dBm]	Cable Loss [dB]	Results [dBm]	Limit (125mW) [dBm]	MARGIN [dB]
Low	2402.00	-0.04	0.30	0.26	20.96	20.70
Mid	2441.00	0.06	0.30	0.36	20.96	20.60
High	2480.00	-1.02	0.30	-0.72	20.96	21.68

Limit: 125mW=20.96dBm

P/M: Power Meter

CABLE LOSS:Customer's cable + KCC-D20

### **3DH5**

CH	FREQ [GHz]	P/M Reading [dBm]	Cable Loss [dB]	Results [dBm]	Limit (125mW) [dBm]	MARGIN [dB]
Low	2402.00	0.48	0.30	0.78	20.96	20.18
Mid	2441.00	0.58	0.30	0.88	20.96	20.08
High	2480.00	-0.47	0.30	-0.17	20.96	21.13

Limit: 125mW=20.96dBm

P/M: Power Meter

CABLE LOSS:Customer's cable + KCC-D20



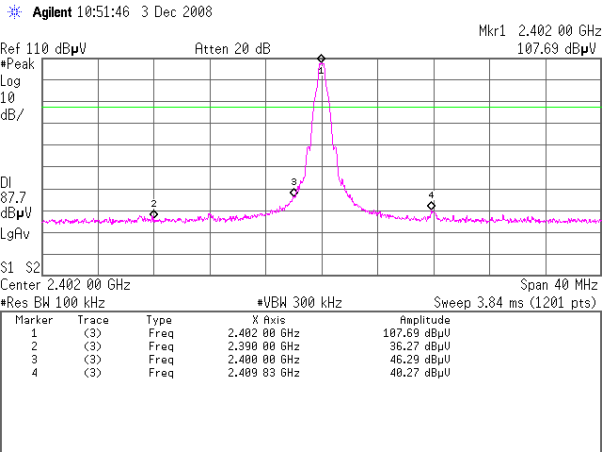
Out of Band Emission (Antenna Terminal Conducted) (Regulation: FCC 15.247(d))

UL Japan, Inc. Yamakita EMC lab.  
Date:  
Temp:  
Humid:  
Engineer:  
Test mode:

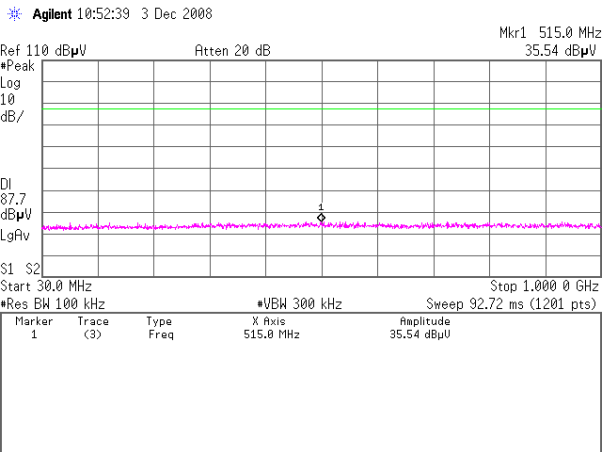
No.1 / 2     shielded room  
2008/12/3     2008/12/19  
23     deg. C.     21     deg. C.  
36     %     37     %  
Tatsuya Arai / Makoto Hosaka  
Transmitting

[Transmitting DH5]  
Ch:2402MHz

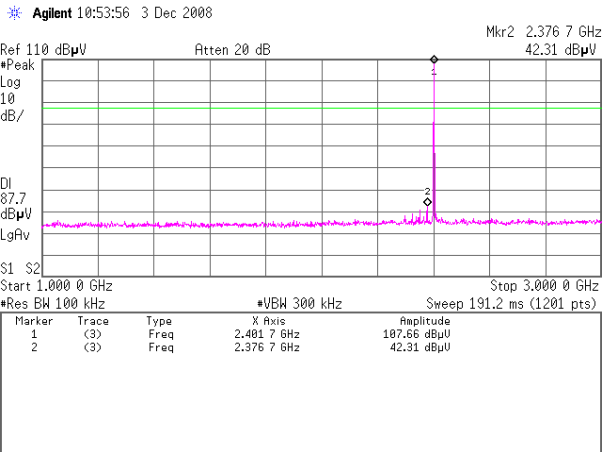
1.



2.



3.



Company:  
Kind of Equipment:  
Serial No.:

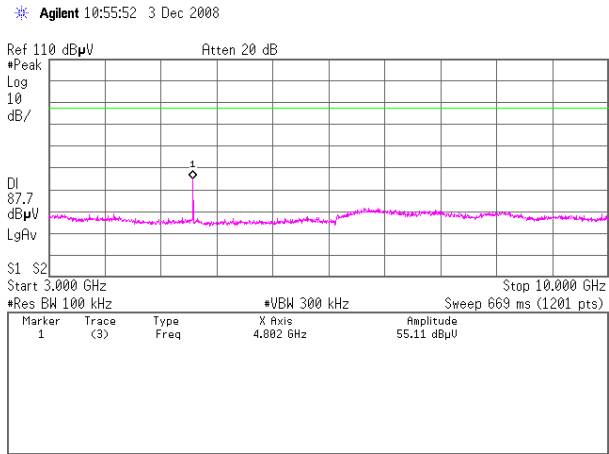
PIONEER CORPORATION  
CD Receiver  
5773995

Report No.:  
Model No.:  
Power:

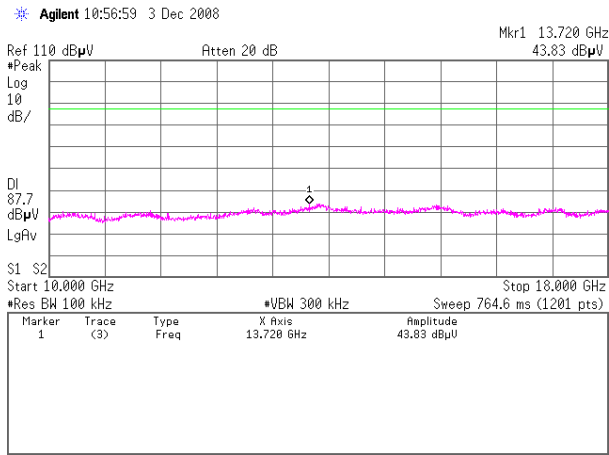
29DE0121-YK-02-A  
DEH-P710BT  
DC 12.0V

[Transmitting DH5]  
Ch:2402MHz

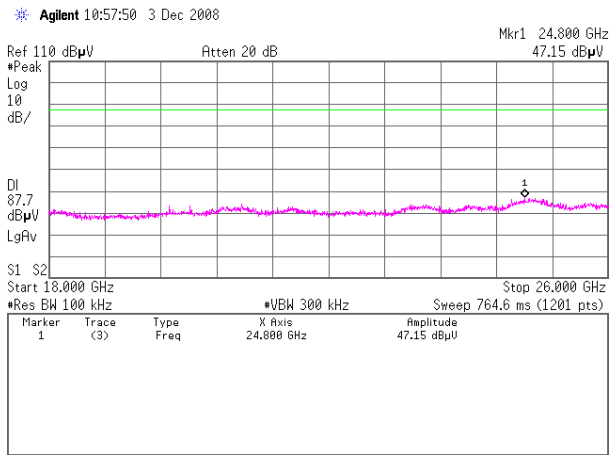
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5.



6.



Company:  
Kind of Equipment:  
Serial No.:

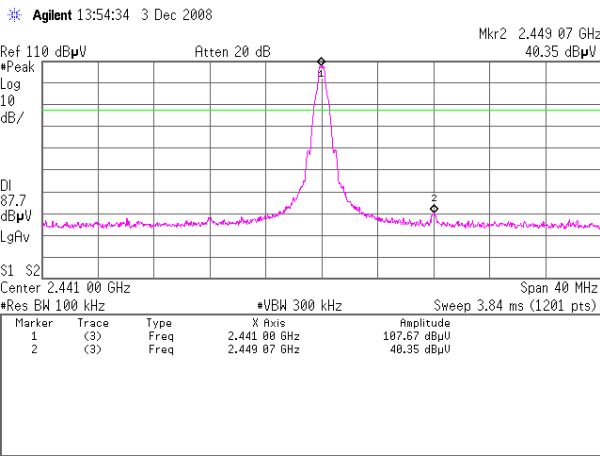
PIONEER CORPORATION  
CD Receiver  
5773995

Report No.:  
Model No.:  
Power:

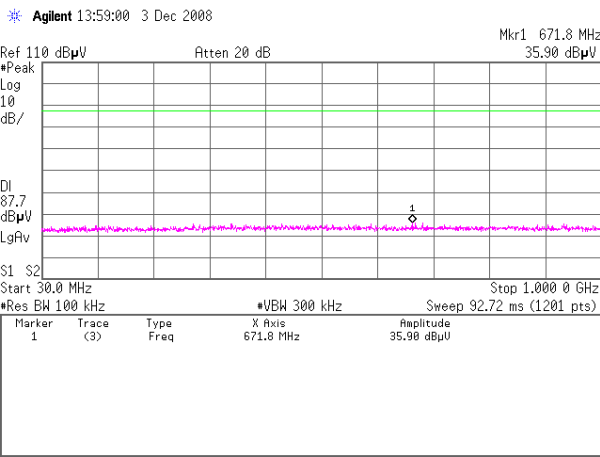
29DE0121-YK-02-A  
DEH-P710BT  
DC 12.0V

[Transmitting DH5]  
Ch:2441MHz

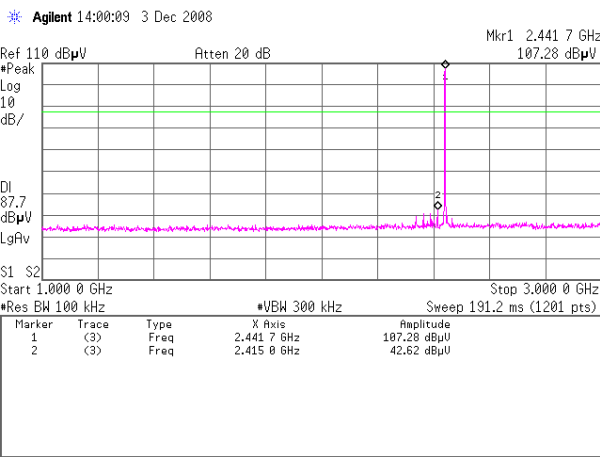
1.



2.



3.



Company:  
Kind of Equipment:  
Serial No.:

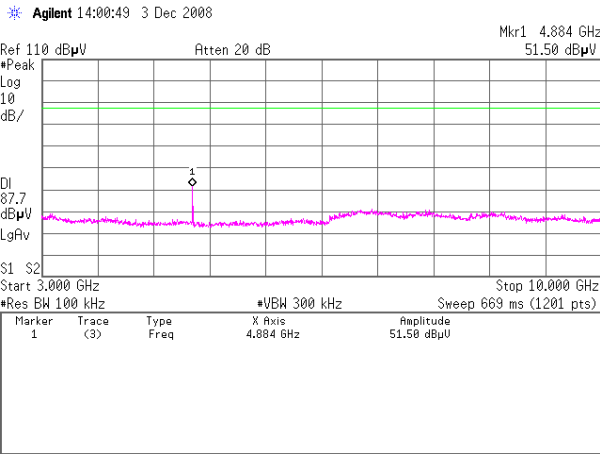
PIONEER CORPORATION  
CD Receiver  
5773995

Report No.:  
Model No.:  
Power:

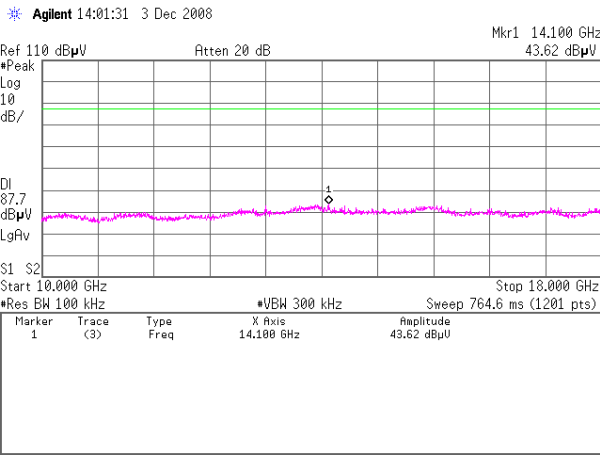
29DE0121-YK-02-A  
DEH-P710BT  
DC 12.0V

[Transmitting DHS]  
Ch:2441MHz

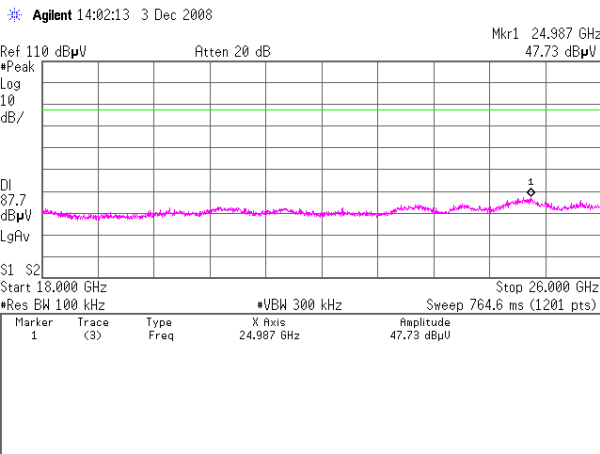
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5.



6.



Company:  
Kind of Equipment:  
Serial No.:

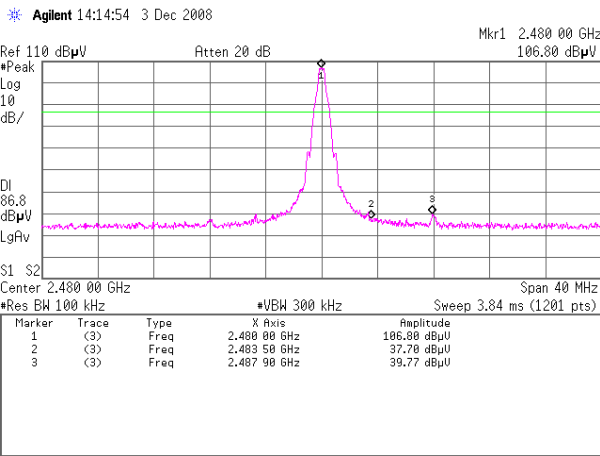
PIONEER CORPORATION  
CD Receiver  
5773995

Report No.:  
Model No.:  
Power:

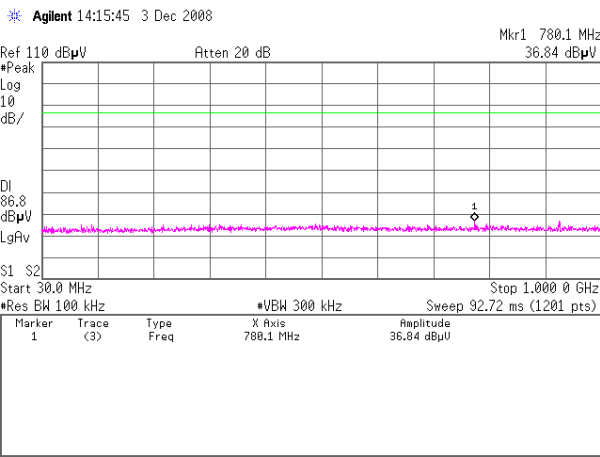
29DE0121-YK-02-A  
DEH-P710BT  
DC 12.0V

[Transmitting DH5]  
Ch:2480MHz

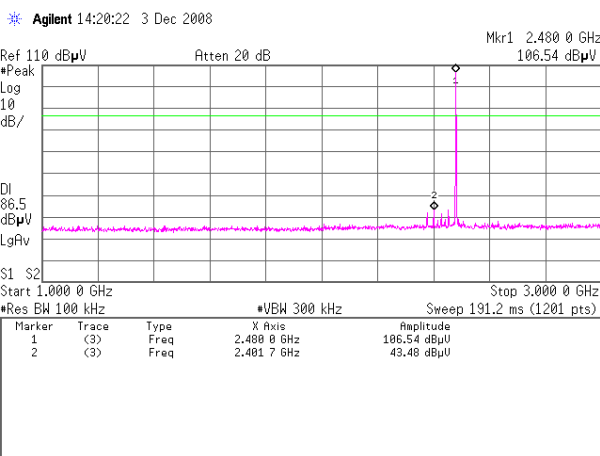
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2.

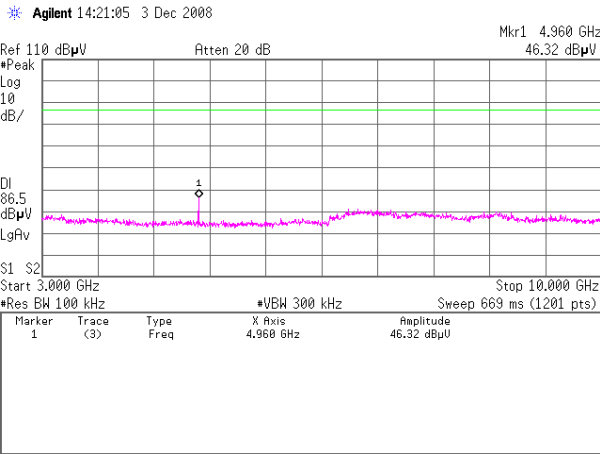


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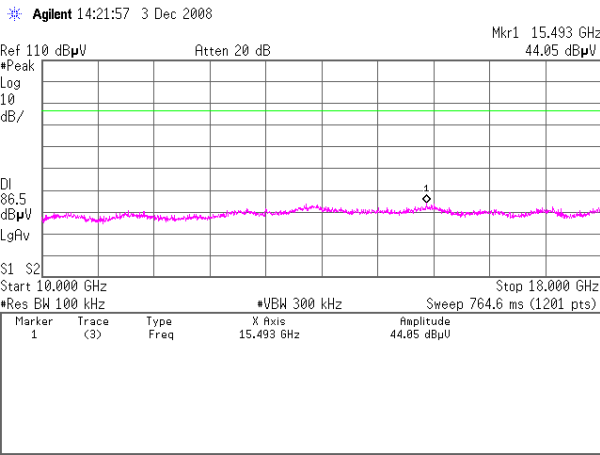


[Transmitting DHS]  
Ch:2480MHz

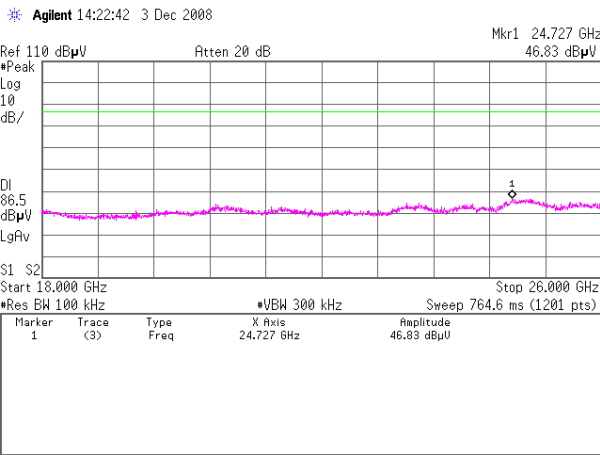
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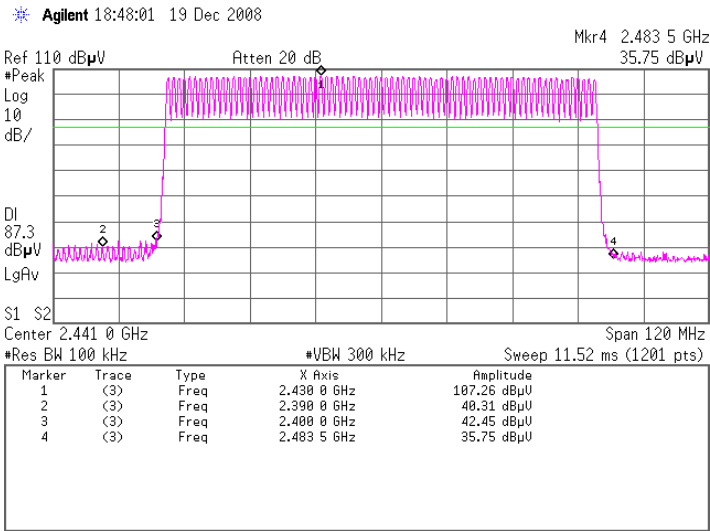


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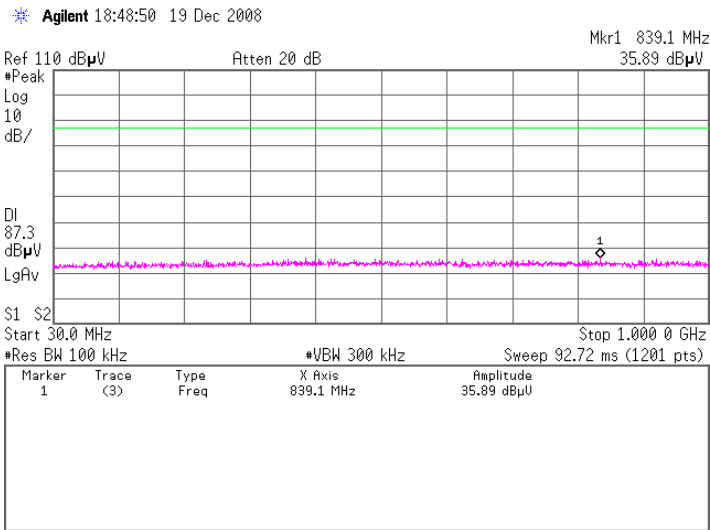


[Transmitting DH5]  
Hopping

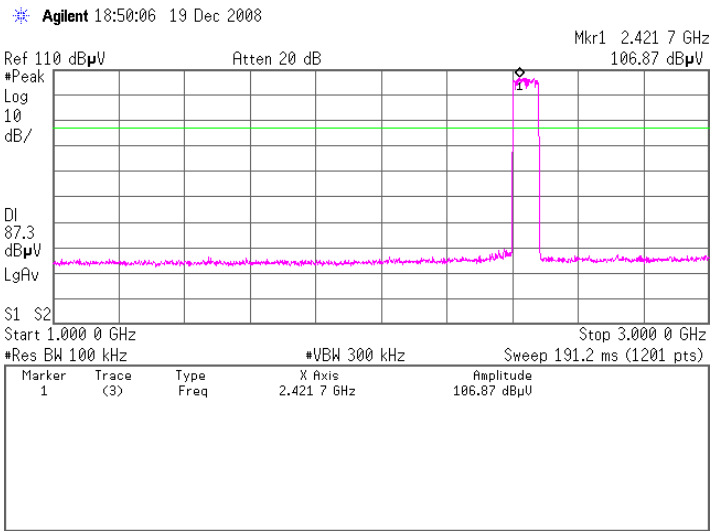
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2.



3.



Company:  
Kind of Equipment:  
Serial No.:

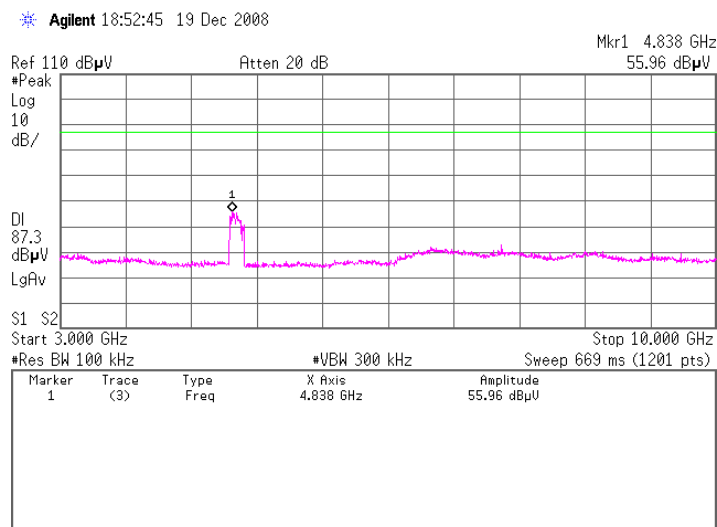
PIONEER CORPORATION  
CD Receiver  
5773995

Report No.:  
Model No.:  
Power:

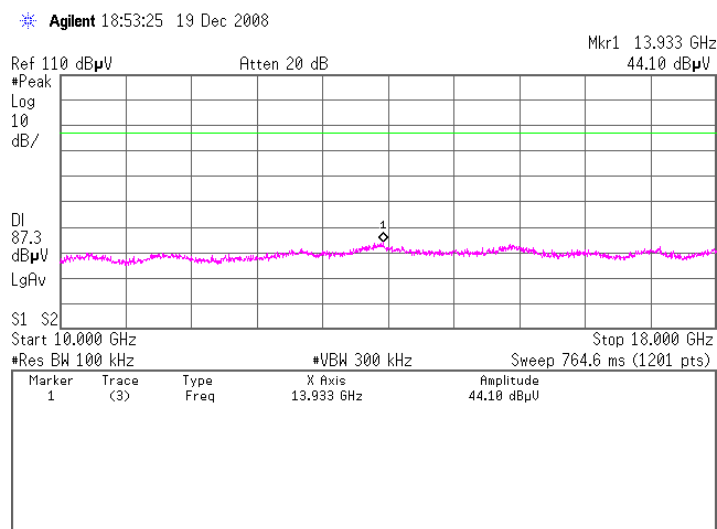
29DE0121-YK-02-A  
DEH-P710BT  
DC 12.0V

[Transmitting DHS]  
Hopping

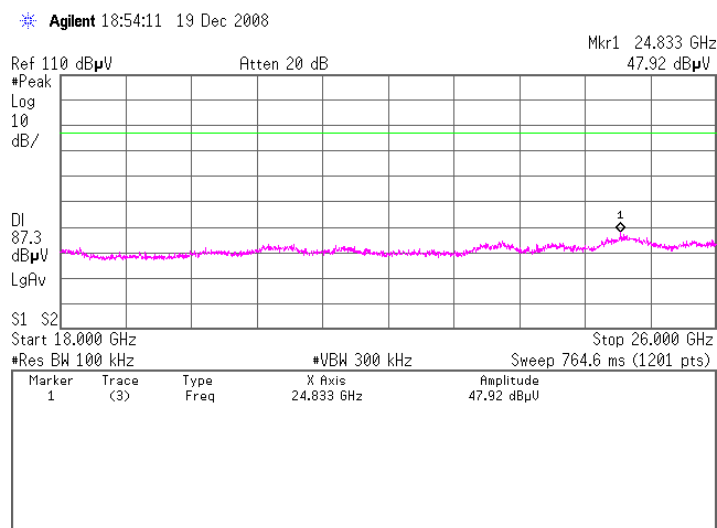
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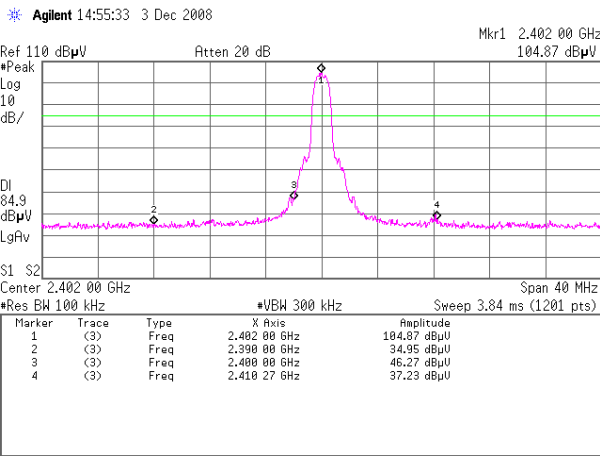
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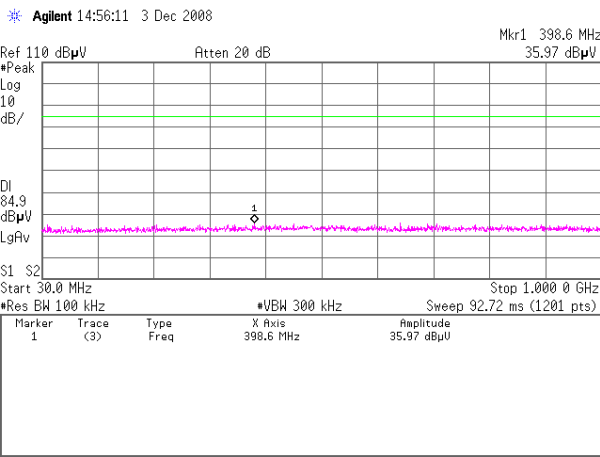


[Transmitting 3DH5]  
Ch:2402MHz

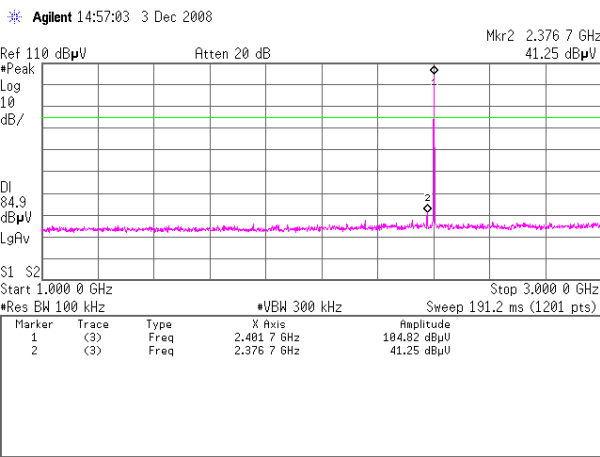
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2.

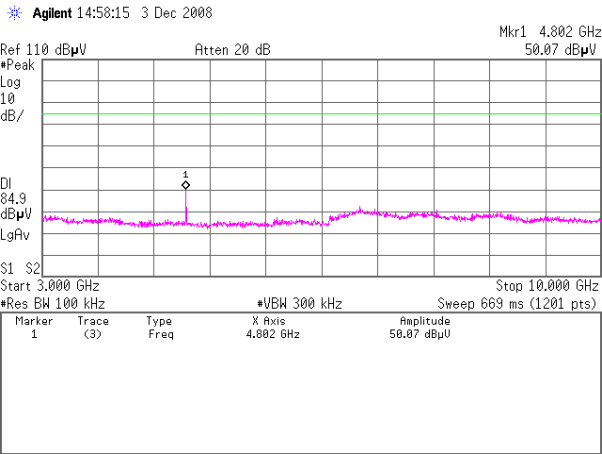


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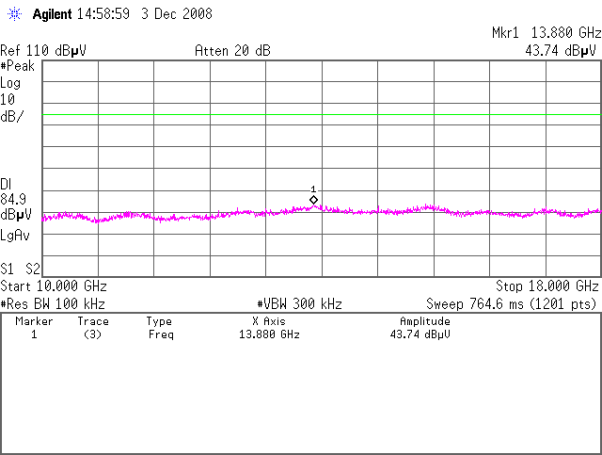


[Transmitting 3DH5]  
Ch:2402MHz

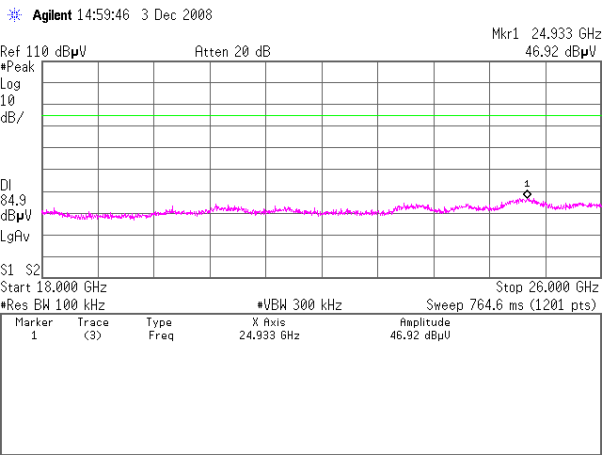
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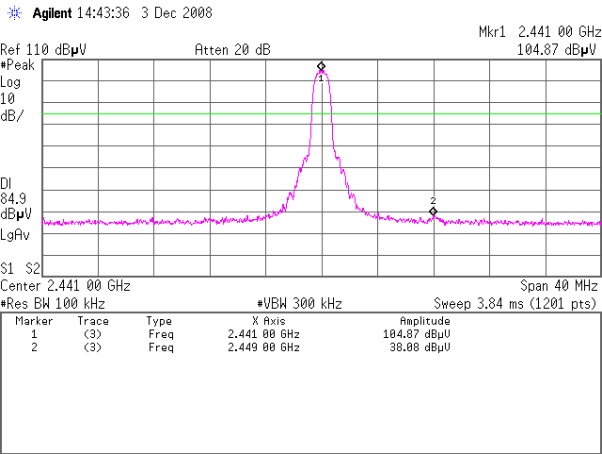


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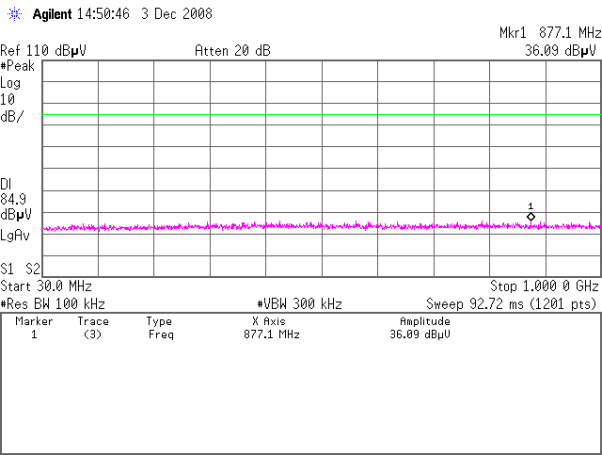


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Ch:2441MHz

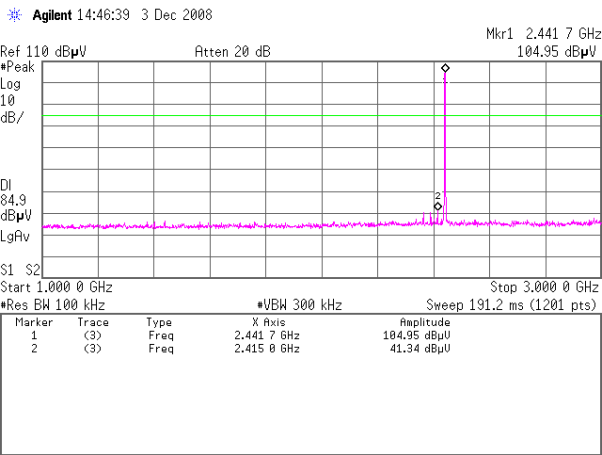
1.



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3.



Company:  
Kind of Equipment:  
Serial No.:

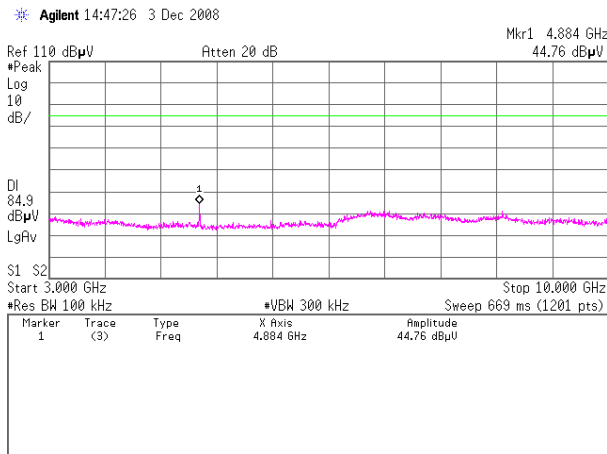
PIONEER CORPORATION  
CD Receiver  
5773995

Report No.:  
Model No.:  
Power:

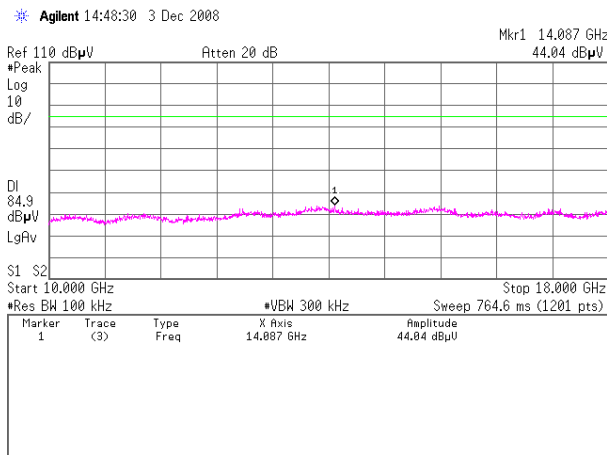
29DE0121-YK-02-A  
DEH-P710BT  
DC 12.0V

[Transmitting 3DH5]  
Ch:2441MHz

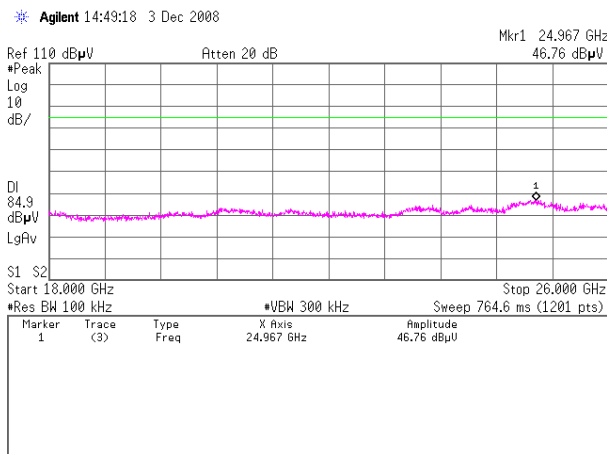
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5.

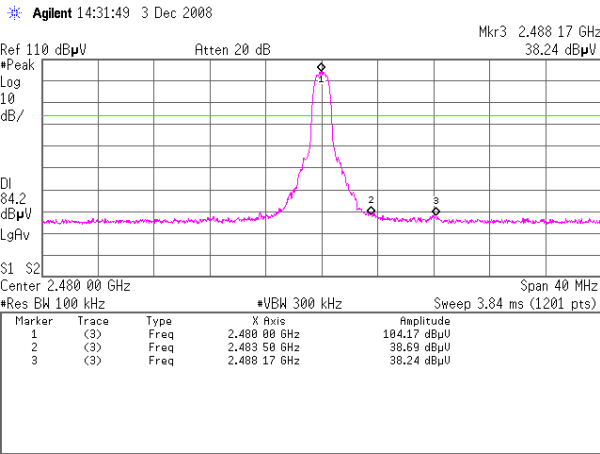


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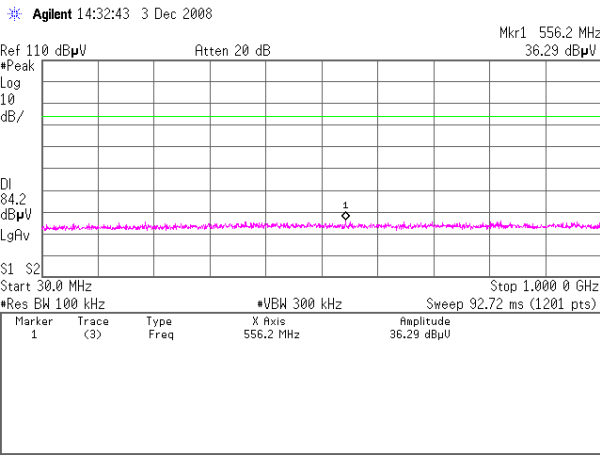


[Transmitting 3DH5]  
Ch:2480MHz

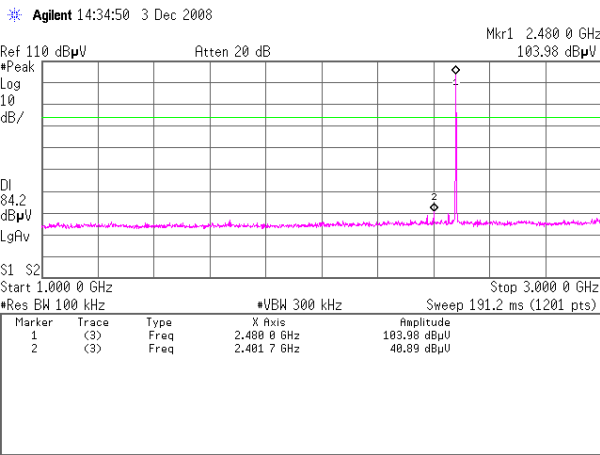
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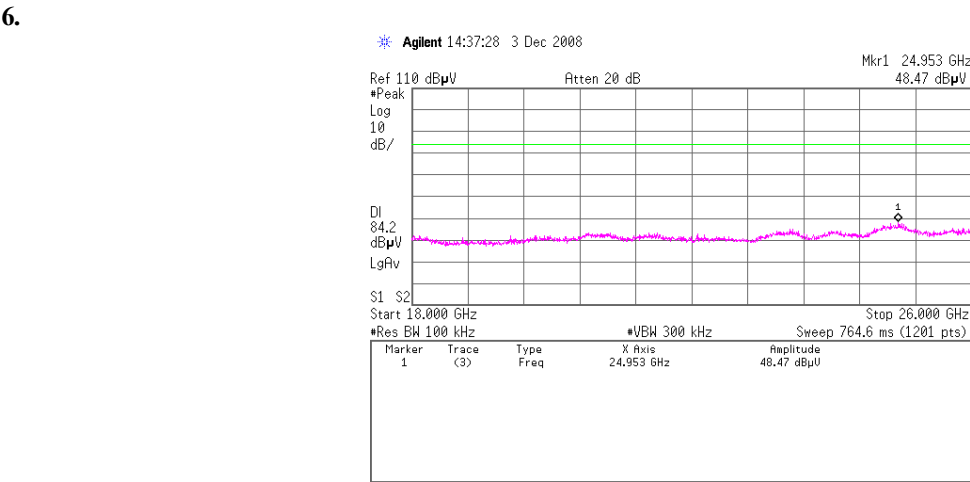
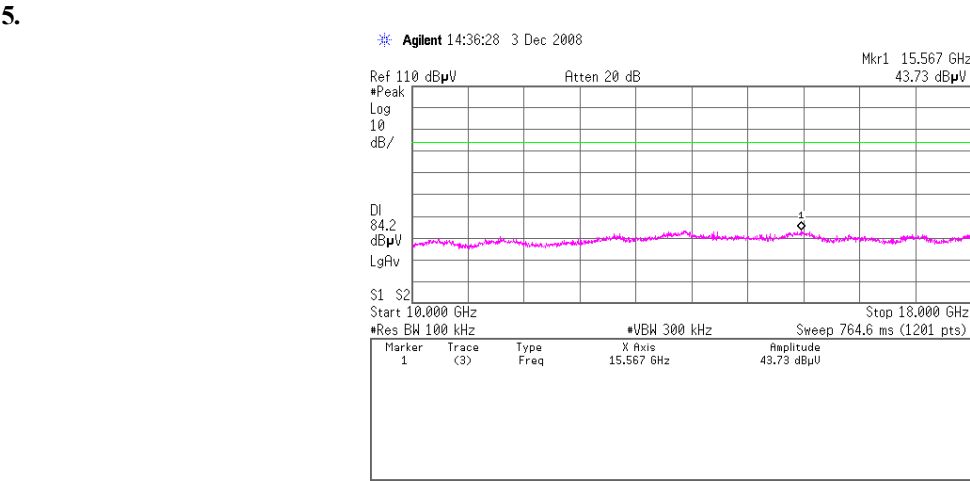
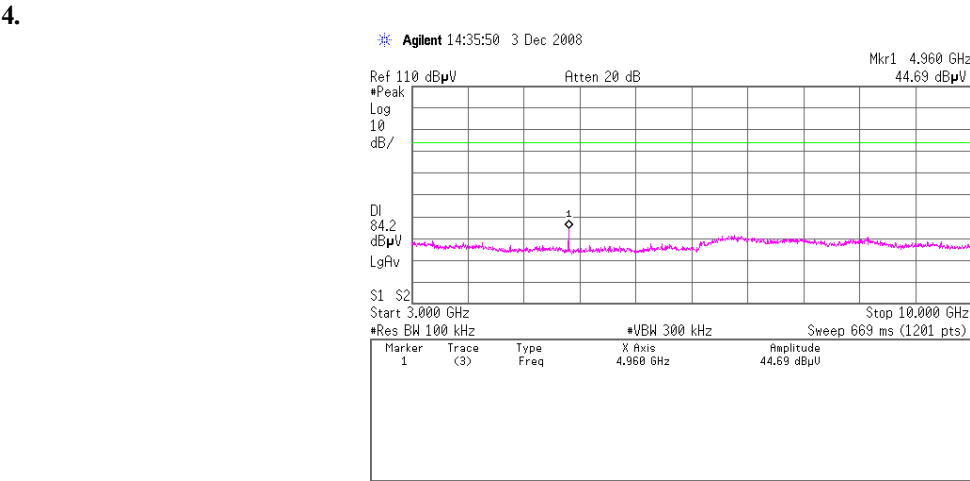
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3.

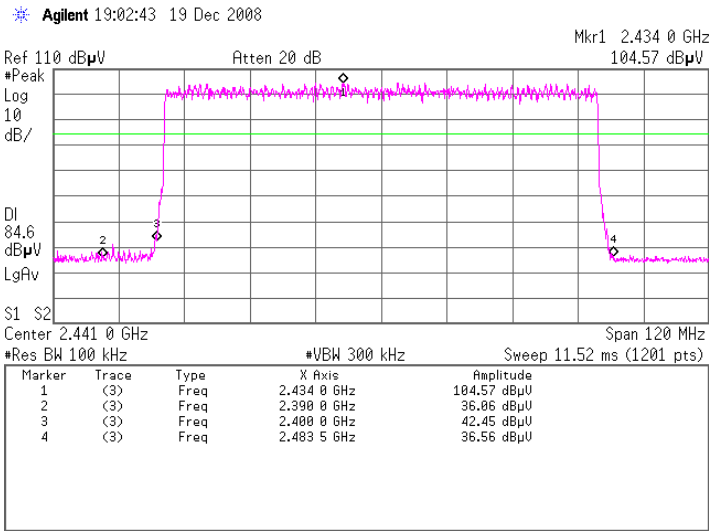


[Transmitting 3DH5]  
Ch:2480MHz

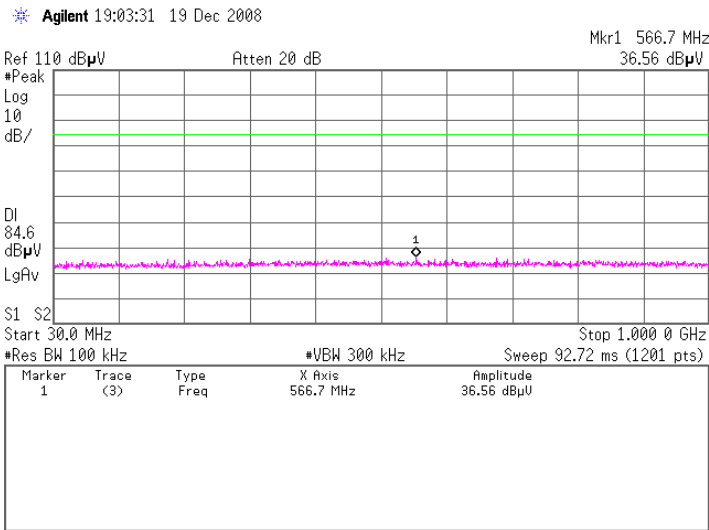


[Transmitting 3DH5]  
Hopping

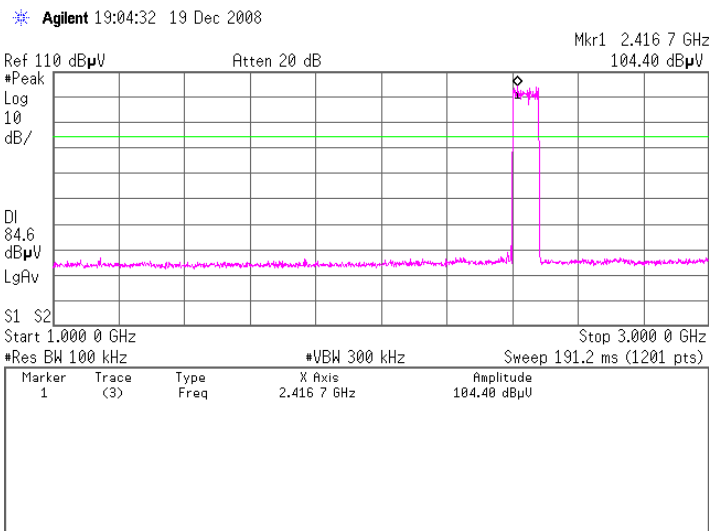
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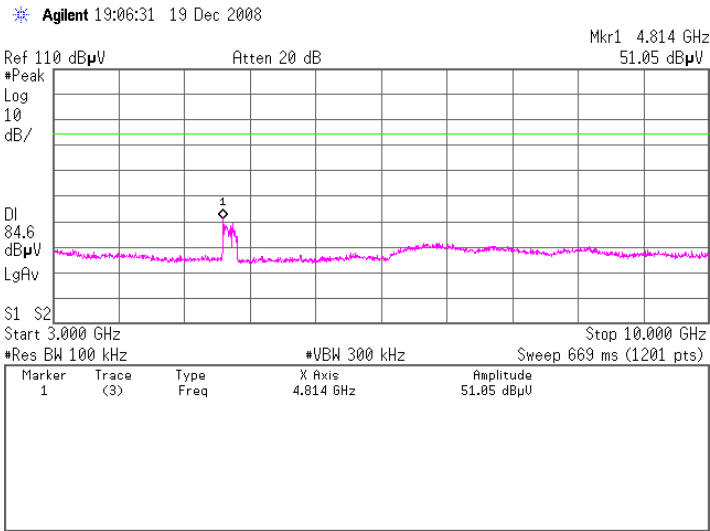


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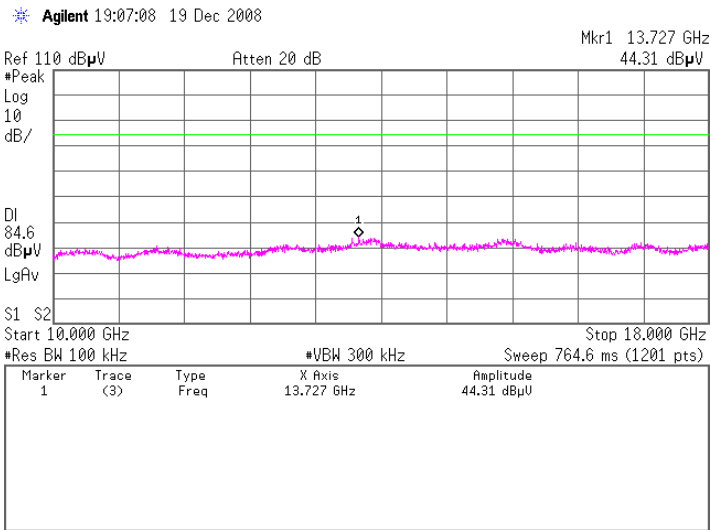


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Hopping

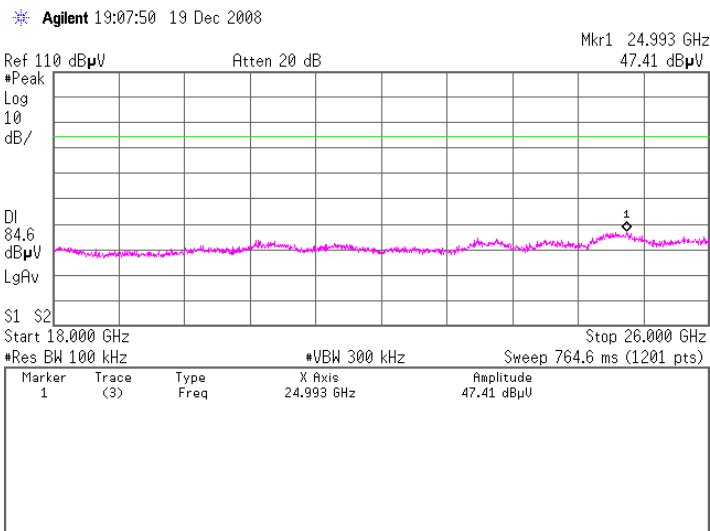
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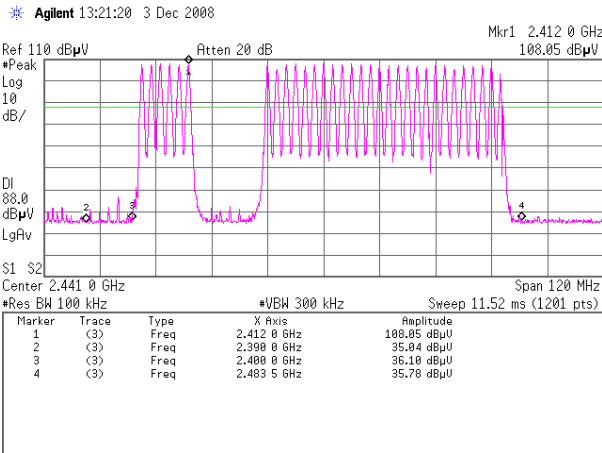


UL Japan, Inc. Yamakita EMC lab.  
Date:  
Temp./Humid.:  
Engineer:  
Test mode:

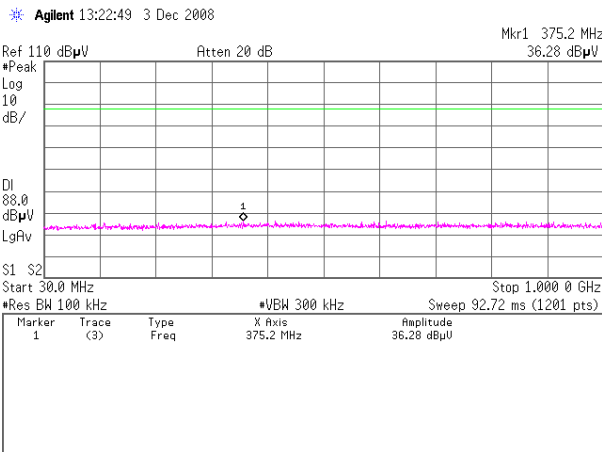
No.1    shielded room  
2008/12/3  
23    deg. C. /    36    %  
Tatsuya Arai  
Transmitting (Inquiry)

[Transmitting]  
Inquiry

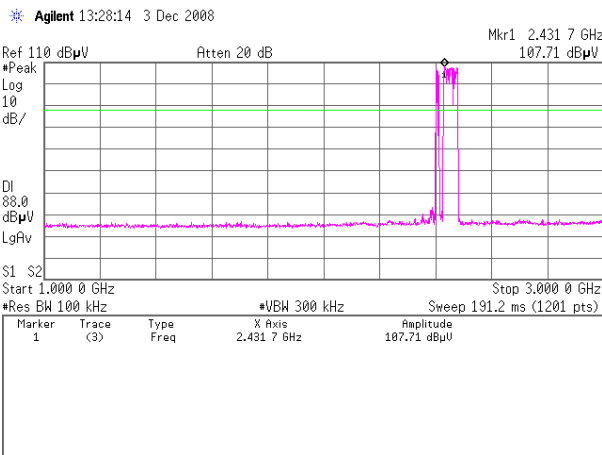
1.



2.



3.



Company:  
Kind of Equipment:  
Serial No.:

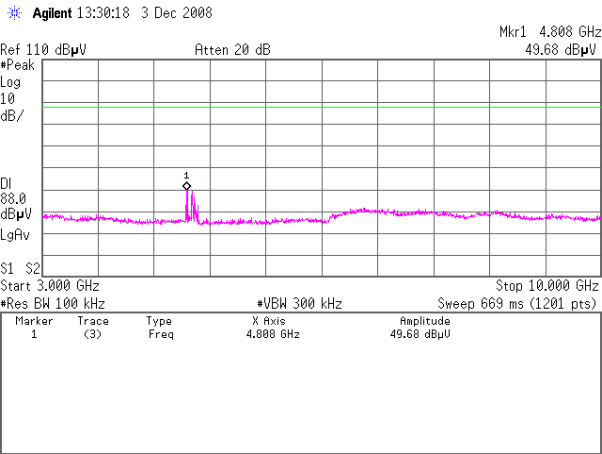
PIONEER CORPORATION  
CD Receiver  
5773995

Report No.:  
Model No.:  
Power:

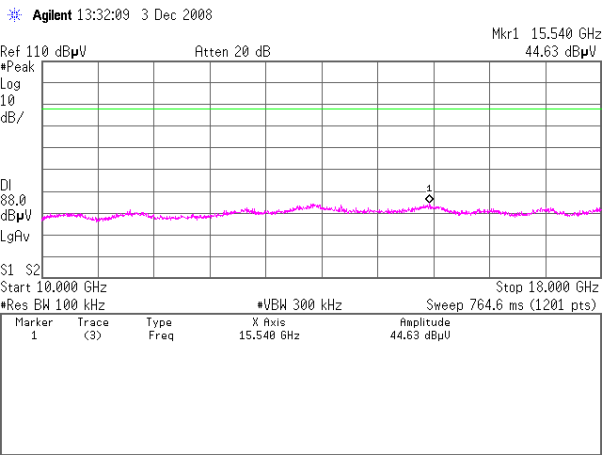
29DE0121-YK-02-A  
DEH-P710BT  
DC 12.0V

[Transmitting]  
Inquiry

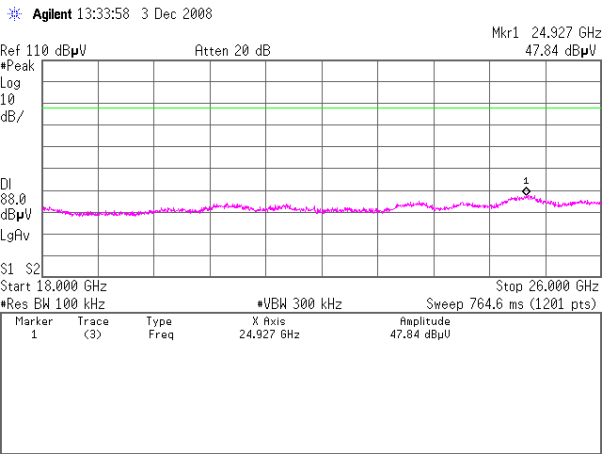
4.



5.



6.



# DATA OF RADIATION TEST

UL Japan, Inc.

YAMAKITA No.1 ANECHOIC CHAMBER

Report No. : 29DE0121-YK-02-A

Applicant : PIONEER CORPORATION  
 Kind of Equipment : CD Receiver  
 Model No. : DEH-P710BT  
 Serial No. : 5774021  
 Power : DC12V  
 Mode : Transmitting (2402MHz)DH5  
 Remarks : -  
 Date : 12/8/2008  
 Test Distance : 3 m  
 Temperature : 18 °C  
 Humidity : 50 %  
 Regulation : FCC Part15C § 15.209

Engineer : Wataru Kojima

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS [dB μ V/m]	MARGIN	
			HOR [dB μ V]	VER [dB μ V]					HOR [dB μ V/m]	VER [dB μ V/m]		HOR [dB]	VER [dB]
1.	67.75	BB	37.2	40.2	6.7	27.5	1.7	6.0	24.1	27.1	40.0	15.9	12.9
2.	84.67	BB	38.3	33.2	7.3	27.5	2.0	6.0	26.1	21.0	40.0	13.9	19.0
3.	90.33	BB	37.1	35.6	8.4	27.5	2.1	6.0	26.1	24.6	43.5	17.4	18.9
4.	96.00	BB	30.8	35.4	9.4	27.5	2.1	6.0	20.8	25.4	43.5	22.7	18.1
5.	101.61	BB	34.8	35.4	10.3	27.5	2.2	6.0	25.8	26.4	43.5	17.7	17.1
6.	288.04	BB	34.1	32.7	19.6	27.3	4.0	6.0	36.4	35.0	46.0	9.6	11.0
7.	336.03	BB	33.8	30.1	15.5	27.3	4.4	6.0	32.4	28.7	46.0	13.6	17.3
8.	384.03	BB	35.2	31.0	16.7	27.3	4.7	6.0	35.3	31.1	46.0	10.7	14.9
9.	462.89	BB	30.8	30.8	18.1	27.2	5.3	6.0	33.0	33.0	46.0	13.0	13.0

CALCULATION: READING + ANT.FACTOR + CABLE LOSS - AMP.GAIN + ATTEN.

■ ANTENNA: KBA-03 (BBA9106) 30-299.99MHz/KLA-03 (USLP9143) 300-1000MHz

■ CABLE: KCC-30/31/32/34 ■ PREAMP: KAF-08 (MH648A) ■ EMI RECEIVER: KTR-04 (ESVS10)

# DATA OF RADIATION TEST

UL Japan, Inc.

YAMAKITA No.1 ANECHOIC CHAMBER

Report No. : 29DE0121-YK-02-A

Applicant : PIONEER CORPORATION  
 Kind of Equipment : CD Receiver  
 Model No. : DEH-P710BT  
 Serial No. : 5774021  
 Power : DC12V  
 Mode : Transmitting (2441MHz)DH5  
 Remarks : -  
 Date : 12/8/2008  
 Test Distance : 3 m  
 Temperature : 18 °C  
 Humidity : 50 %  
 Regulation : FCC Part15C § 15.209

Engineer : Wataru Kojima

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS [dB μ V/m]	MARGIN	
			HOR [dB μ V]	VER [dB μ V]					HOR [dB μ V/m]	VER [dB μ V/m]		HOR [dB]	VER [dB]
1.	67.77	BB	35.6	39.1	6.7	27.5	1.7	6.0	22.5	26.0	40.0	17.5	14.0
2.	84.67	BB	38.5	32.8	7.3	27.5	2.0	6.0	26.3	20.6	40.0	13.7	19.4
3.	90.33	BB	35.4	33.1	8.4	27.5	2.1	6.0	24.4	22.1	43.5	19.1	21.4
4.	95.99	BB	30.1	33.1	9.4	27.5	2.1	6.0	20.1	23.1	43.5	23.4	20.4
5.	101.63	BB	32.8	33.7	10.4	27.5	2.2	6.0	23.9	24.8	43.5	19.6	18.7
6.	288.04	BB	33.8	32.1	19.6	27.3	4.0	6.0	36.1	34.4	46.0	9.9	11.6
7.	336.04	BB	32.5	30.0	15.5	27.3	4.4	6.0	31.1	28.6	46.0	14.9	17.4
8.	384.01	BB	34.5	30.4	16.7	27.3	4.7	6.0	34.6	30.5	46.0	11.4	15.5
9.	462.88	BB	30.8	25.2	18.1	27.2	5.3	6.0	33.0	27.4	46.0	13.0	18.6

CALCULATION: READING + ANT.FACTOR + CABLE LOSS - AMP.GAIN + ATTEN.

■ ANTENNA: KBA-03 (BBA9106) 30-299.99MHz/KLA-03 (USLP9143) 300-1000MHz

■ CABLE: KCC-30/31/32/34 ■ PREAMP: KAF-08 (MH648A) ■ EMI RECEIVER: KTR-04 (ESVS10)

# DATA OF RADIATION TEST

UL Japan, Inc.

YAMAKITA No.1 ANECHOIC CHAMBER

Report No. : 29DE0121-YK-02-A

Applicant : PIONEER CORPORATION  
 Kind of Equipment : CD Receiver  
 Model No. : DEH-P710BT  
 Serial No. : 5774021  
 Power : DC12V  
 Mode : Transmitting (2480MHz) DH5  
 Remarks : -  
 Date : 12/8/2008  
 Test Distance : 3 m  
 Temperature : 18 °C  
 Humidity : 50 %  
 Regulation : FCC Part15C § 15.209

Engineer : Wataru Kojima

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS [dB μ V/m]	MARGIN	
			HOR [dB μ V]	VER [dB μ V]					HOR [dB μ V/m]	VER [dB μ V/m]		HOR [dB]	VER [dB]
1.	67.76	BB	35.8	39.1	6.7	27.5	1.7	6.0	22.7	26.0	40.0	17.3	14.0
2.	84.67	BB	39.2	33.0	7.3	27.5	2.0	6.0	27.0	20.8	40.0	13.0	19.2
3.	90.34	BB	35.2	33.4	8.4	27.5	2.1	6.0	24.2	22.4	43.5	19.3	21.1
4.	95.99	BB	30.2	32.8	9.4	27.5	2.1	6.0	20.2	22.8	43.5	23.3	20.7
5.	101.63	BB	31.5	33.9	10.4	27.5	2.2	6.0	22.6	25.0	43.5	20.9	18.5
6.	288.03	BB	37.2	31.9	19.6	27.3	4.0	6.0	39.5	34.2	46.0	6.5	11.8
7.	336.04	BB	30.7	29.9	15.5	27.3	4.4	6.0	29.3	28.5	46.0	16.7	17.5
8.	384.04	BB	33.5	31.1	16.7	27.3	4.7	6.0	33.6	31.2	46.0	12.4	14.8
9.	462.89	BB	30.1	25.1	18.1	27.2	5.3	6.0	32.3	27.3	46.0	13.7	18.7

CALCULATION: READING + ANT. FACTOR + CABLE LOSS - AMP. GAIN + ATTEN.

■ ANTENNA: KBA-03 (BBA9106) 30-299.99MHz / KLA-03 (USLP9143) 300-1000MHz

■ CABLE: KCC-30/31/32/34 ■ PREAMP: KAF-08 (MH648A) ■ EMI RECEIVER: KTR-04 (ESVS10)

# DATA OF RADIATION TEST

UL Japan, Inc.

YAMAKITA No.1 ANECHOIC CHAMBER

Report No. : 29DE0121-YK-02-A

Applicant : PIONEER CORPORATION  
Kind of Equipment : CD Receiver  
Model No. : DEH-P710BT  
Serial No. : 5774021  
Power : DC12V  
Mode : Transmitting (2402MHz) DH5  
Remarks : PK (RBW:1MHz, VBW:1MHz)  
Date : 12/6/2008  
Test Distance : 3 m  
Temperature : 18 °C Engineer : Tatsuya Arai  
Humidity : 53 %  
Regulation : FCC Part15C § 15.209(PK Detection)

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS [dB μ V/m]	MARGIN	
			HOR [dB μ V]	VER [dB μ V]					HOR [dB μ V/m]	VER [dB μ V/m]		HOR [dB]	VER [dB]
1.	2390.00	BB	44.3	44.4	28.8	35.4	4.4	0.0	42.1	42.2	74.0	31.9	31.8
2.	2400.00	BB	49.2	47.8	28.8	35.3	4.5	0.0	47.2	45.8	74.0	26.8	28.2
3.	4804.00	BB	43.3	44.4	33.6	34.1	5.9	0.0	48.7	49.8	74.0	25.3	24.2
4.	7206.00	BB	44.1	44.2	36.1	34.7	7.1	0.0	52.6	52.7	74.0	21.4	21.3
5.	9608.00	BB	45.3	44.5	37.6	35.3	8.2	0.0	55.8	55.0	74.0	18.2	19.0
6.	12010.00	BB	45.1	44.9	39.7	35.0	8.9	0.0	58.7	58.5	74.0	15.3	15.5

CALCULATION: READING + ANT.FACTOR + CABLE LOSS - AMP.GAIN + ATTEN.

■ ANTENNA:KHA-01 (SAS-200 571) 1-18GHz/KHA-03 (3160-09) 18-26GHz

■ CABLE:KCC-D16/D17 ■ PREAMP:KAF-07 (8449B) ■ EMI RECEIVER:KTR-01 (ES140)

# DATA OF RADIATION TEST

UL Japan, Inc.

YAMAKITA No.1 ANECHOIC CHAMBER

Report No. : 29DE0121-YK-02-A

Applicant : PIONEER CORPORATION  
Kind of Equipment : CD Receiver  
Model No. : DEH-P710BT  
Serial No. : 5774021  
Power : DC12V  
Mode : Transmitting (2402MHz) DH5  
Remarks : AV (RBW:1MHz, VBW:300Hz)  
Date : 12/6/2008  
Test Distance : 3 m  
Temperature : 18 °C Engineer : Tatsuya Arai  
Humidity : 53 %  
Regulation : FCC Part15C § 15.209(AV Detection)

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS [dB μ V/m]	MARGIN	
			HOR [dB μ V]	VER [dB μ V]					HOR [dB μ V/m]	VER [dB μ V/m]		HOR [dB]	VER [dB]
1.	2390.00	BB	31.6	31.5	28.8	35.4	4.4	0.0	29.4	29.3	54.0	24.6	24.7
2.	2400.00	BB	41.5	40.4	28.8	35.3	4.5	0.0	39.5	38.4	54.0	14.5	15.6
3.	4804.00	BB	30.7	30.8	33.6	34.1	5.9	0.0	36.1	36.2	54.0	17.9	17.8
4.	7206.00	BB	31.0	31.1	36.1	34.7	7.1	0.0	39.5	39.6	54.0	14.5	14.4
5.	9608.00	BB	32.2	32.3	37.6	35.3	8.2	0.0	42.7	42.8	54.0	11.3	11.2
6.	12010.00	BB	32.0	32.0	39.7	35.0	8.9	0.0	45.6	45.6	54.0	8.4	8.4

CALCULATION: READING + ANT.FACTOR + CABLE LOSS - AMP.GAIN + ATTEN.

■ ANTENNA:KHA-01 (SAS-200 571) 1-18GHz/KHA-03 (3160-09) 18-26GHz

■ CABLE:KCC-D16/D17 ■ PREAMP:KAF-07 (8449B) ■ EMI RECEIVER:KTR-01 (ES140)

# DATA OF RADIATION TEST

UL Japan, Inc.

YAMAKITA No.1 ANECHOIC CHAMBER

Report No. : 29DE0121-YK-02-A

Applicant : PIONEER CORPORATION  
 Kind of Equipment : CD Receiver  
 Model No. : DEH-P710BT  
 Serial No. : 5774021  
 Power : DC12V  
 Mode : Transmitting (2441MHz)DH5  
 Remarks : PK (RBW:1MHz, VBW:1MHz)  
 Date : 12/6/2008  
 Test Distance : 3 m  
 Temperature : 18 °C  
 Humidity : 53 %  
 Regulation : FCC Part15C § 15.209(PK Detection)

Engineer : Tatsuya Arai

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS [dB μ V/m]	MARGIN	
			HOR [dB μ V]	VER [dB μ V]					HOR [dB μ V/m]	VER [dB μ V/m]		HOR [dB]	VER [dB]
1.	4882.00	BB	44.3	43.6	33.8	34.1	6.0	0.0	50.0	49.3	74.0	24.0	24.7
2.	7323.00	BB	43.1	43.3	36.2	34.8	7.1	0.0	51.6	51.8	74.0	22.4	22.2
3.	9764.00	BB	44.7	45.3	37.6	35.4	8.2	0.0	55.1	55.7	74.0	18.9	18.3
4.	12205.00	BB	45.6	44.8	39.9	34.8	9.0	0.0	59.7	58.9	74.0	14.3	15.1

CALCULATION: READING + ANT.FACTOR + CABLE LOSS - AMP.GAIN + ATTEN.

■ ANTENNA:KHA-01 (SAS-200 571) 1-18GHz/KHA-03 (3160-09) 18-26GHz  
 ■ CABLE:KCC-D16/D17 ■ PREAMP:KAF-07 (8449B) ■ EMI RECEIVER:KTR-01 (ES140)



# DATA OF RADIATION TEST

UL Japan, Inc.

YAMAKITA No.1 ANECHOIC CHAMBER

Report No. : 29DE0121-YK-02-A

Applicant : PIONEER CORPORATION  
 Kind of Equipment : CD Receiver  
 Model No. : DEH-P710BT  
 Serial No. : 5774021  
 Power : DC12V  
 Mode : Transmitting (2441MHz)DH5  
 Remarks : AV (RBW:1MHz, VBW:300Hz)  
 Date : 12/6/2008  
 Test Distance : 3 m  
 Temperature : 18 °C  
 Humidity : 53 %  
 Regulation : FCC Part15C § 15.209(AV Detection)

Engineer : Tatsuya Arai

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS [dB μ V/m]	MARGIN	
			HOR [dB μ V]	VER [dB μ V]					HOR [dB μ V/m]	VER [dB μ V/m]		HOR [dB]	VER [dB]
1.	4882.00	BB	31.7	32.4	33.8	34.1	6.0	0.0	37.4	38.1	54.0	16.6	15.9
2.	7323.00	BB	30.9	31.0	36.2	34.8	7.1	0.0	39.4	39.5	54.0	14.6	14.5
3.	9764.00	BB	32.2	32.2	37.6	35.4	8.2	0.0	42.6	42.6	54.0	11.4	11.4
4.	12205.00	BB	32.0	32.1	39.9	34.8	9.0	0.0	46.1	46.2	54.0	7.9	7.8

CALCULATION: READING + ANT.FACTOR + CABLE LOSS - AMP.GAIN + ATTEN.

■ ANTENNA:KHA-01 (SAS-200 571) 1-18GHz/KHA-03 (3160-09) 18-26GHz  
 ■ CABLE:KCC-D16/D17 ■ PREAMP:KAF-07 (8449B) ■ EMI RECEIVER:KTR-01 (ES140)

# DATA OF RADIATION TEST

UL Japan, Inc.

YAMAKITA No.1 ANECHOIC CHAMBER

Report No. : 29DE0121-YK-02-A

Applicant : PIONEER CORPORATION  
 Kind of Equipment : CD Receiver  
 Model No. : DEH-P710BT  
 Serial No. : 5774021  
 Power : DC12V  
 Mode : Transmitting (2480MHz) DH5  
 Remarks : PK (RBW:1MHz, VBW:1MHz)  
 Date : 12/6/2008  
 Test Distance : 3 m  
 Temperature : 18 °C  
 Humidity : 53 %  
 Regulation : FCC Part15C § 15.209(PK Detection)

Engineer : Tatsuya Arai

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS [dB μ V/m]	MARGIN	
			HOR [dB μ V]	VER [dB μ V]					HOR [dB μ V/m]	VER [dB μ V/m]		HOR [dB]	VER [dB]
1.	2483.50	BB	43.7	44.0	28.8	35.3	4.5	0.0	41.7	42.0	74.0	32.3	32.0
2.	4960.00	BB	43.2	43.7	34.1	34.1	6.0	0.0	49.2	49.7	74.0	24.8	24.3
3.	7440.00	BB	43.6	43.7	36.3	34.8	7.1	0.0	52.2	52.3	74.0	21.8	21.7
4.	9920.00	BB	44.6	45.9	37.6	35.4	8.3	0.0	55.1	56.4	74.0	18.9	17.6
5.	12400.00	BB	44.3	45.3	40.2	34.6	9.0	0.0	58.9	59.9	74.0	15.1	14.1

CALCULATION: READING + ANT.FACTOR + CABLE LOSS - AMP.GAIN + ATTEN.

■ ANTENNA: KHA-01 (SAS-200 571) 1-18GHz/KHA-03 (3160-09) 18-26GHz  
 ■ CABLE: KCC-D16/D17 ■ PREAMP: KAF-07 (8449B) ■ EMI RECEIVER: KTR-01 (ES140)

# DATA OF RADIATION TEST

UL Japan, Inc.

YAMAKITA No.1 ANECHOIC CHAMBER

Report No. : 29DE0121-YK-02-A

Applicant : PIONEER CORPORATION  
 Kind of Equipment : CD Receiver  
 Model No. : DEH-P710BT  
 Serial No. : 5774021  
 Power : DC12V  
 Mode : Transmitting (2480MHz) DH5  
 Remarks : AV (RBW:1MHz, VBW:300Hz)  
 Date : 12/6/2008  
 Test Distance : 3 m  
 Temperature : 18 °C  
 Humidity : 53 %  
 Regulation : FCC Part15C § 15.209(AV Detection)

Engineer : Tatsuya Arai

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS [dB μ V/m]	MARGIN	
			HOR [dB μ V]	VER [dB μ V]					HOR [dB μ V/m]	VER [dB μ V/m]		HOR [dB]	VER [dB]
1.	2483.50	BB	31.9	31.6	28.8	35.3	4.5	0.0	29.9	29.6	54.0	24.1	24.4
2.	4960.00	BB	30.7	30.5	34.1	34.1	6.0	0.0	36.7	36.5	54.0	17.3	17.5
3.	7440.00	BB	30.9	30.8	36.3	34.8	7.1	0.0	39.5	39.4	54.0	14.5	14.6
4.	9920.00	BB	32.3	32.0	37.6	35.4	8.3	0.0	42.8	42.5	54.0	11.2	11.5
5.	12400.00	BB	32.2	32.2	40.2	34.6	9.0	0.0	46.8	46.8	54.0	7.2	7.2

CALCULATION: READING + ANT.FACTOR + CABLE LOSS - AMP.GAIN + ATTEN.

■ ANTENNA: KHA-01 (SAS-200 571) 1-18GHz/KHA-03 (3160-09) 18-26GHz  
 ■ CABLE: KCC-D16/D17 ■ PREAMP: KAF-07 (8449B) ■ EMI RECEIVER: KTR-01 (ES140)

# DATA OF RADIATION TEST

UL Japan, Inc.

YAMAKITA No.1 ANECHOIC CHAMBER

Report No. : 29DE0121-YK-02-A

Applicant : PIONEER CORPORATION  
 Kind of Equipment : CD Receiver  
 Model No. : DEH-P710BT  
 Serial No. : 5774021  
 Power : DC12V  
 Mode : Transmitting (2402MHz) 3DH5  
 Remarks : -  
 Date : 12/8/2008  
 Test Distance : 3 m  
 Temperature : 18 °C  
 Humidity : 50 %  
 Regulation : FCC Part15C § 15.209

Engineer : Wataru Kojima

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS [dB μ V/m]	MARGIN	
			HOR [dB μ V]	VER [dB μ V]					HOR [dB μ V/m]	VER [dB μ V/m]		HOR [dB]	VER [dB]
1.	67.76	BB	37.8	39.0	6.7	27.5	1.7	6.0	24.7	25.9	40.0	15.3	14.1
2.	84.68	BB	39.6	33.4	7.3	27.5	2.0	6.0	27.4	21.2	40.0	12.6	18.8
3.	90.32	BB	35.1	33.2	8.4	27.5	2.1	6.0	24.1	22.2	43.5	19.4	21.3
4.	95.99	BB	30.2	34.5	9.4	27.5	2.1	6.0	20.2	24.5	43.5	23.3	19.0
5.	101.63	BB	33.3	33.8	10.4	27.5	2.2	6.0	24.4	24.9	43.5	19.1	18.6
6.	288.02	BB	37.1	31.9	19.6	27.3	4.0	6.0	39.4	34.2	46.0	6.6	11.8
7.	336.01	BB	30.3	27.2	15.5	27.3	4.4	6.0	28.9	25.8	46.0	17.1	20.2
8.	384.04	BB	34.8	30.9	16.7	27.3	4.7	6.0	34.9	31.0	46.0	11.1	15.0
9.	451.60	BB	28.4	24.5	17.9	27.2	5.2	6.0	30.3	26.4	46.0	15.7	19.6

CALCULATION: READING + ANT. FACTOR + CABLE LOSS - AMP. GAIN + ATTEN.

■ ANTENNA: KBA-03 (BBA9106) 30-299.99MHz / KLA-03 (USLP9143) 300-1000MHz

■ CABLE: KCC-30/31/32/34 ■ PREAMP: KAF-08 (MH648A) ■ EMI RECEIVER: KTR-04 (ESVS10)

# DATA OF RADIATION TEST

UL Japan, Inc.

YAMAKITA No.1 ANECHOIC CHAMBER

Report No. : 29DE0121-YK-02-A

Applicant : PIONEER CORPORATION  
 Kind of Equipment : CD Receiver  
 Model No. : DEH-P710BT  
 Serial No. : 5774021  
 Power : DC12V  
 Mode : Transmitting (2441MHz) 3DH5  
 Remarks : -  
 Date : 12/8/2008  
 Test Distance : 3 m  
 Temperature : 18 °C  
 Humidity : 50 %  
 Regulation : FCC Part15C § 15.209

Engineer : Wataru Kojima

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS [dB μ V/m]	MARGIN	
			HOR [dB μ V]	VER [dB μ V]					HOR [dB μ V/m]	VER [dB μ V/m]		HOR [dB]	VER [dB]
1.	67.77	BB	35.3	39.0	6.7	27.5	1.7	6.0	22.2	25.9	40.0	17.8	14.1
2.	84.70	BB	37.3	32.8	7.3	27.5	2.0	6.0	25.1	20.6	40.0	14.9	19.4
3.	90.34	BB	37.3	33.2	8.4	27.5	2.1	6.0	26.3	22.2	43.5	17.2	21.3
4.	96.01	BB	29.9	33.1	9.4	27.5	2.1	6.0	19.9	23.1	43.5	23.6	20.4
5.	101.61	BB	33.8	34.1	10.3	27.5	2.2	6.0	24.8	25.1	43.5	18.7	18.4
6.	288.03	BB	34.7	32.1	19.6	27.3	4.0	6.0	37.0	34.4	46.0	9.0	11.6
7.	336.01	BB	30.7	29.9	15.5	27.3	4.4	6.0	29.3	28.5	46.0	16.7	17.5
8.	384.02	BB	34.8	31.0	16.7	27.3	4.7	6.0	34.9	31.1	46.0	11.1	14.9
9.	451.60	BB	28.7	24.3	17.9	27.2	5.2	6.0	30.6	26.2	46.0	15.4	19.8

CALCULATION: READING + ANT.FACTOR + CABLE LOSS - AMP.GAIN + ATTEN.

■ ANTENNA: KBA-03 (BBA9106) 30-299.99MHz / KLA-03 (USLP9143) 300-1000MHz

■ CABLE: KCC-30/31/32/34 ■ PREAMP: KAF-08 (MH648A) ■ EMI RECEIVER: KTR-04 (ESVS10)

# DATA OF RADIATION TEST

UL Japan, Inc.

YAMAKITA No.1 ANECHOIC CHAMBER

Report No. : 29DE0121-YK-02-A

Applicant : PIONEER CORPORATION  
 Kind of Equipment : CD Receiver  
 Model No. : DEH-P710BT  
 Serial No. : 5774021  
 Power : DC12V  
 Mode : Transmitting (2480MHz) 3DH5  
 Remarks : -  
 Date : 12/8/2008  
 Test Distance : 3 m  
 Temperature : 18 °C  
 Humidity : 50 %  
 Regulation : FCC Part15C § 15.209

Engineer : Wataru Kojima

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS [dB μ V/m]	MARGIN	
			HOR [dB μ V]	VER [dB μ V]					HOR [dB μ V/m]	VER [dB μ V/m]		HOR [dB]	VER [dB]
1.	67.76	BB	35.2	38.4	6.7	27.5	1.7	6.0	22.1	25.3	40.0	17.9	14.7
2.	84.67	BB	38.3	32.9	7.3	27.5	2.0	6.0	26.1	20.7	40.0	13.9	19.3
3.	90.32	BB	35.4	33.6	8.4	27.5	2.1	6.0	24.4	22.6	43.5	19.1	20.9
4.	96.01	BB	30.2	33.2	9.4	27.5	2.1	6.0	20.2	23.2	43.5	23.3	20.3
5.	101.63	BB	32.9	34.1	10.4	27.5	2.2	6.0	24.0	25.2	43.5	19.5	18.3
6.	288.02	BB	37.2	31.7	19.6	27.3	4.0	6.0	39.5	34.0	46.0	6.5	12.0
7.	336.02	BB	30.7	27.7	15.5	27.3	4.4	6.0	29.3	26.3	46.0	16.7	19.7
8.	384.03	BB	34.2	30.9	16.7	27.3	4.7	6.0	34.3	31.0	46.0	11.7	15.0
9.	451.60	BB	28.8	24.3	17.9	27.2	5.2	6.0	30.7	26.2	46.0	15.3	19.8

CALCULATION: READING + ANT.FACTOR + CABLE LOSS - AMP.GAIN + ATTEN.

■ ANTENNA: KBA-03 (BBA9106) 30-299.99MHz / KLA-03 (USLP9143) 300-1000MHz

■ CABLE: KCC-30/31/32/34 ■ PREAMP: KAF-08 (MH648A) ■ EMI RECEIVER: KTR-04 (ESVS10)

# DATA OF RADIATION TEST

UL Japan, Inc.

YAMAKITA No.1 ANECHOIC CHAMBER

Report No. : 29DE0121-YK-02-A

Applicant : PIONEER CORPORATION  
Kind of Equipment : CD Receiver  
Model No. : DEH-P710BT  
Serial No. : 5774021  
Power : DC12V  
Mode : Transmitting (2402MHz) 3DH5  
Remarks : PK (RBW:1MHz, VBW:1MHz)  
Date : 12/6/2008  
Test Distance : 3 m  
Temperature : 18 °C Engineer : Tatsuya Arai  
Humidity : 53 %  
Regulation : FCC Part15C § 15.209(PK Detection)

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS [dB μ V/m]	MARGIN	
			HOR [dB μ V]	VER [dB μ V]					HOR [dB μ V/m]	VER [dB μ V/m]		HOR [dB]	VER [dB]
1.	2390.00	BB	44.4	43.5	28.8	35.4	4.4	0.0	42.2	41.3	74.0	31.8	32.7
2.	2400.00	BB	50.6	50.0	28.8	35.3	4.5	0.0	48.6	48.0	74.0	25.4	26.0
3.	4804.00	BB	43.2	43.7	33.6	34.1	5.9	0.0	48.6	49.1	74.0	25.4	24.9
4.	7206.00	BB	43.6	44.2	36.1	34.7	7.1	0.0	52.1	52.7	74.0	21.9	21.3
5.	9608.00	BB	45.2	44.7	37.6	35.3	8.2	0.0	55.7	55.2	74.0	18.3	18.8
6.	12010.00	BB	44.4	44.3	39.7	35.0	8.9	0.0	58.0	57.9	74.0	16.0	16.1

CALCULATION: READING + ANT.FACTOR + CABLE LOSS - AMP.GAIN + ATTEN.

■ ANTENNA:KHA-01 (SAS-200 571) 1-18GHz/KHA-03 (3160-09) 18-26GHz

■ CABLE:KCC-D16/D17 ■ PREAMP:KAF-07 (8449B) ■ EMI RECEIVER:KTR-01 (ES140)

# DATA OF RADIATION TEST

UL Japan, Inc.

YAMAKITA No.1 ANECHOIC CHAMBER

Report No. : 29DE0121-YK-02-A

Applicant : PIONEER CORPORATION  
 Kind of Equipment : CD Receiver  
 Model No. : DEH-P710BT  
 Serial No. : 5774021  
 Power : DC12V  
 Mode : Transmitting (2402MHz) 3DH5  
 Remarks : AV (RBW:1MHz, VBW:300Hz)  
 Date : 12/6/2008  
 Test Distance : 3 m  
 Temperature : 18 °C  
 Humidity : 53 %  
 Regulation : FCC Part15C § 15.209(AV Detection)

Engineer : Tatsuya Arai

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS [dB μ V/m]	MARGIN	
			HOR [dB μ V]	VER [dB μ V]					HOR [dB μ V/m]	VER [dB μ V/m]		HOR [dB]	VER [dB]
1.	2390.00	BB	31.3	31.3	28.8	35.4	4.4	0.0	29.1	29.1	54.0	24.9	24.9
2.	2400.00	BB	41.4	41.2	28.8	35.3	4.5	0.0	39.4	39.2	54.0	14.6	14.8
3.	4804.00	BB	30.5	30.3	33.6	34.1	5.9	0.0	35.9	35.7	54.0	18.1	18.3
4.	7206.00	BB	31.1	31.0	36.1	34.7	7.1	0.0	39.6	39.5	54.0	14.4	14.5
5.	9608.00	BB	32.4	32.1	37.6	35.3	8.2	0.0	42.9	42.6	54.0	11.1	11.4
6.	12010.00	BB	32.1	31.9	39.7	35.0	8.9	0.0	45.7	45.5	54.0	8.3	8.5

CALCULATION: READING + ANT.FACTOR + CABLE LOSS - AMP.GAIN + ATTEN.

■ ANTENNA:KHA-01 (SAS-200 571) 1-18GHz/KHA-03 (3160-09) 18-26GHz

■ CABLE:KCC-D16/D17 ■ PREAMP:KAF-07 (8449B) ■ EMI RECEIVER:KTR-01 (ES140)



# DATA OF RADIATION TEST

UL Japan, Inc.

YAMAKITA No.1 ANECHOIC CHAMBER

Report No. : 29DE0121-YK-02-A

Applicant : PIONEER CORPORATION  
Kind of Equipment : CD Receiver  
Model No. : DEH-P710BT  
Serial No. : 5774021  
Power : DC12V  
Mode : Transmitting (2441MHz) 3DH5  
Remarks : PK (RBW:1MHz, VBW:1MHz)  
Date : 12/6/2008  
Test Distance : 3 m  
Temperature : 18 °C Engineer : Tatsuya Arai  
Humidity : 53 %  
Regulation : FCC Part15C § 15.209(PK Detection)

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS [dB μ V/m]	MARGIN	
			HOR [dB μ V]	VER [dB μ V]					HOR [dB μ V/m]	VER [dB μ V/m]		HOR [dB]	VER [dB]
1.	4882.00	BB	43.9	43.1	33.8	34.1	6.0	0.0	49.6	48.8	74.0	24.4	25.2
2.	7323.00	BB	43.9	43.2	36.2	34.8	7.1	0.0	52.4	51.7	74.0	21.6	22.3
3.	9764.00	BB	44.6	44.8	37.6	35.4	8.2	0.0	55.0	55.2	74.0	19.0	18.8
4.	12205.00	BB	44.9	44.5	39.9	34.8	9.0	0.0	59.0	58.6	74.0	15.0	15.4

CALCULATION: READING + ANT.FACTOR + CABLE LOSS - AMP.GAIN + ATTEN.

■ ANTENNA:KHA-01 (SAS-200 571) 1-18GHz/KHA-03 (3160-09) 18-26GHz

■ CABLE:KCC-D16/D17 ■ PREAMP:KAF-07 (8449B) ■ EMI RECEIVER:KTR-01 (ES140)

# DATA OF RADIATION TEST

UL Japan, Inc.

YAMAKITA No.1 ANECHOIC CHAMBER

Report No. : 29DE0121-YK-02-A

Applicant : PIONEER CORPORATION  
 Kind of Equipment : CD Receiver  
 Model No. : DEH-P710BT  
 Serial No. : 5774021  
 Power : DC12V  
 Mode : Transmitting (2441MHz) 3DH5  
 Remarks : AV (RBW:1MHz, VBW:300Hz)  
 Date : 12/6/2008  
 Test Distance : 3 m  
 Temperature : 18 °C  
 Humidity : 53 %  
 Regulation : FCC Part15C § 15.209(AV Detection)

Engineer : Tatsuya Arai

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS [dB μ V/m]	MARGIN	
			HOR [dB μ V]	VER [dB μ V]					HOR [dB μ V/m]	VER [dB μ V/m]		HOR [dB]	VER [dB]
1.	4882.00	BB	30.7	30.5	33.8	34.1	6.0	0.0	36.4	36.2	54.0	17.6	17.8
2.	7323.00	BB	30.8	30.9	36.2	34.8	7.1	0.0	39.3	39.4	54.0	14.7	14.6
3.	9764.00	BB	32.1	32.1	37.6	35.4	8.2	0.0	42.5	42.5	54.0	11.5	11.5
4.	12205.00	BB	31.9	32.0	39.9	34.8	9.0	0.0	46.0	46.1	54.0	8.0	7.9

CALCULATION: READING + ANT.FACTOR + CABLE LOSS - AMP.GAIN + ATTEN.

■ ANTENNA:KHA-01 (SAS-200 571) 1-18GHz/KHA-03 (3160-09) 18-26GHz  
 ■ CABLE:KCC-D16/D17 ■ PREAMP:KAF-07 (8449B) ■ EMI RECEIVER:KTR-01 (ES140)

# DATA OF RADIATION TEST

UL Japan, Inc.

YAMAKITA No.1 ANECHOIC CHAMBER

Report No. : 29DE0121-YK-02-A

Applicant : PIONEER CORPORATION  
 Kind of Equipment : CD Receiver  
 Model No. : DEH-P710BT  
 Serial No. : 5774021  
 Power : DC12V  
 Mode : Transmitting (2480MHz) 3DH5  
 Remarks : PK (RBW:1MHz, VBW:1MHz)  
 Date : 12/6/2008  
 Test Distance : 3 m  
 Temperature : 18 °C  
 Humidity : 53 %  
 Regulation : FCC Part15C § 15.209(PK Detection)

Engineer : Tatsuya Arai

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS [dB μ V/m]	MARGIN	
			HOR [dB μ V]	VER [dB μ V]					HOR [dB μ V/m]	VER [dB μ V/m]		HOR [dB]	VER [dB]
1.	2483.50	BB	45.0	44.3	28.8	35.3	4.5	0.0	43.0	42.3	74.0	31.0	31.7
2.	4960.00	BB	43.2	43.9	34.1	34.1	6.0	0.0	49.2	49.9	74.0	24.8	24.1
3.	7440.00	BB	43.4	43.9	36.3	34.8	7.1	0.0	52.0	52.5	74.0	22.0	21.5
4.	9920.00	BB	44.8	44.6	37.6	35.4	8.3	0.0	55.3	55.1	74.0	18.7	18.9
5.	12400.00	BB	44.9	45.3	40.2	34.6	9.0	0.0	59.5	59.9	74.0	14.5	14.1

CALCULATION: READING + ANT.FACTOR + CABLE LOSS - AMP.GAIN + ATTEN.

■ ANTENNA: KHA-01 (SAS-200 571) 1-18GHz/KHA-03 (3160-09) 18-26GHz  
 ■ CABLE: KCC-D16/D17 ■ PREAMP: KAF-07 (8449B) ■ EMI RECEIVER: KTR-01 (ES140)

# DATA OF RADIATION TEST

UL Japan, Inc.

YAMAKITA No.1 ANECHOIC CHAMBER

Report No. : 29DE0121-YK-02-A

Applicant : PIONEER CORPORATION  
 Kind of Equipment : CD Receiver  
 Model No. : DEH-P710BT  
 Serial No. : 5774021  
 Power : DC12V  
 Mode : Transmitting (2480MHz) 3DH5  
 Remarks : AV (RBW:1MHz, VBW:300Hz)  
 Date : 12/6/2008  
 Test Distance : 3 m  
 Temperature : 18 °C  
 Humidity : 53 %  
 Regulation : FCC Part15C § 15.209(AV Detection)

Engineer : Tatsuya Arai

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS [dB μ V/m]	MARGIN	
			HOR [dB μ V]	VER [dB μ V]					HOR [dB μ V/m]	VER [dB μ V/m]		HOR [dB]	VER [dB]
1.	2483.50	BB	31.4	31.5	28.8	35.3	4.5	0.0	29.4	29.5	54.0	24.6	24.5
2.	4960.00	BB	30.5	30.4	34.1	34.1	6.0	0.0	36.5	36.4	54.0	17.5	17.6
3.	7440.00	BB	30.6	30.7	36.3	34.8	7.1	0.0	39.2	39.3	54.0	14.8	14.7
4.	9920.00	BB	31.9	32.0	37.6	35.4	8.3	0.0	42.4	42.5	54.0	11.6	11.5
5.	12400.00	BB	32.2	32.1	40.2	34.6	9.0	0.0	46.8	46.7	54.0	7.2	7.3

CALCULATION: READING + ANT.FACTOR + CABLE LOSS - AMP.GAIN + ATTEN.

■ ANTENNA: KHA-01 (SAS-200 571) 1-18GHz/KHA-03 (3160-09) 18-26GHz  
 ■ CABLE: KCC-D16/D17 ■ PREAMP: KAF-07 (8449B) ■ EMI RECEIVER: KTR-01 (ES140)

## Duty Cycle

UL Japan, Inc. Yamakita EMC lab.

Date:

Temp./Humid.:

Engineer:

Test mode:

No.1 Anechoic Chamber

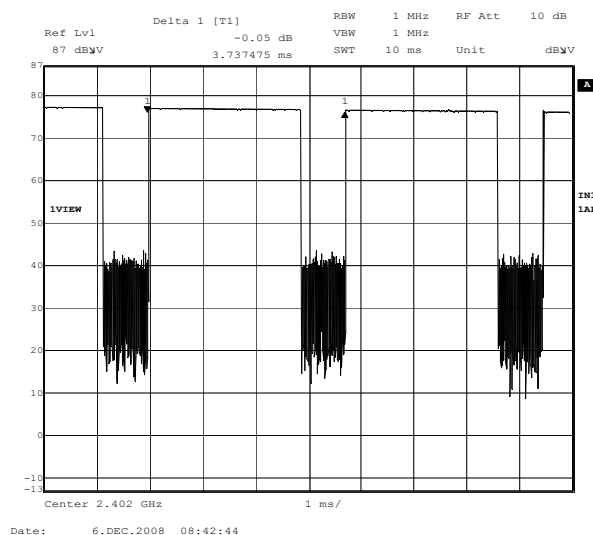
2008/12/6

18 deg. C. / 53 %

Tatsuya Arai

Transmitting

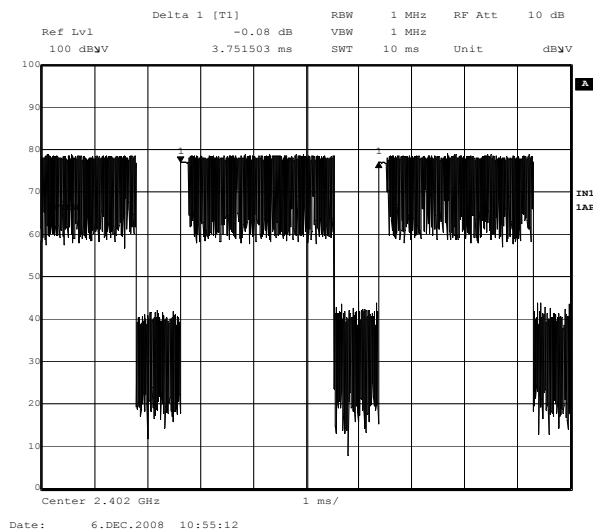
[DH5]



Duty Cycle: 3.76ms

AV Detector VBW:  $1000 / 3.74\text{ms} = 267.4\text{Hz} \rightarrow 300\text{Hz}$

[3DH5]



Duty Cycle: 3.75ms

AV Detector VBW:  $1000 / 3.75\text{ms} = 266.7\text{Hz} \rightarrow 300\text{Hz}$

\* All the measured noise was pulse emission.

\* Duty cycle was within 100msec.

This purpose of the Duty Cycle calculation measures the pulse timing that we ensure Spectrum Analyzer can detect the pulse emission correctly. Therefore, if the pulse train can happen by 50msec(20Hz) or less, the average value measurement by setting the repetition frequency is done more correctly than VBW=10Hz that DA 00-705 accepts for AV detect. For instance, if pulse cycle is every 10msec, we set VBW = 100Hz(=1000/10) in order not to overlook a pulse unexpectedly.

## Occupied Bandwidth (99%) (Regulation: RSS-Gen 4.6.1)

UL Japan, Inc. Yamakita EMC lab.

No.1 / 2 shielded room

Date:

2008/12/3

2008/12/19

Temp:

23 deg. C.

21 deg. C.

Humid:

36 %

37 %

Engineer:

Tatsuya Arai / Makoto Hosaka

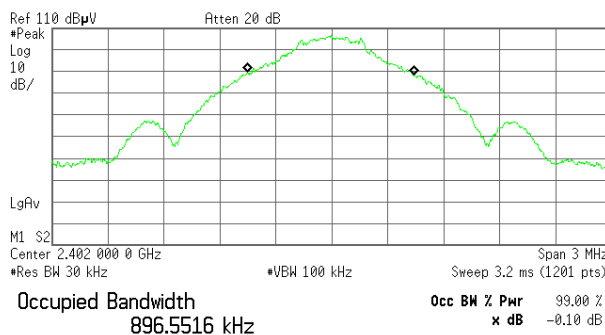
Test mode:

Transmitting

### [Hopping off, DHS]

#### 1. ch : 2402MHz/Occupied Bandwidth: 896.5516kHz

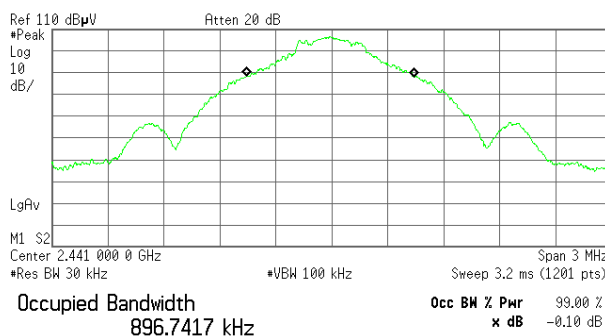
\* Agilent 10:37:19 3 Dec 2008



Transmit Freq Error -4.660 kHz  
x dB Bandwidth 18.862 kHz

#### 2. ch : 2441MHz/Occupied Bandwidth: 896.7417kHz

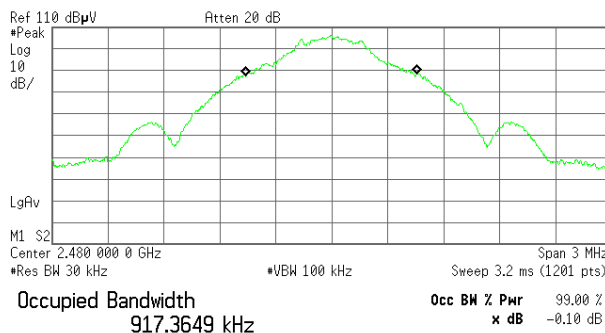
\* Agilent 10:35:45 3 Dec 2008



Transmit Freq Error -5.421 kHz  
x dB Bandwidth 5.564 kHz

#### 3. ch : 2480MHz/Occupied Bandwidth: 917.3649kHz

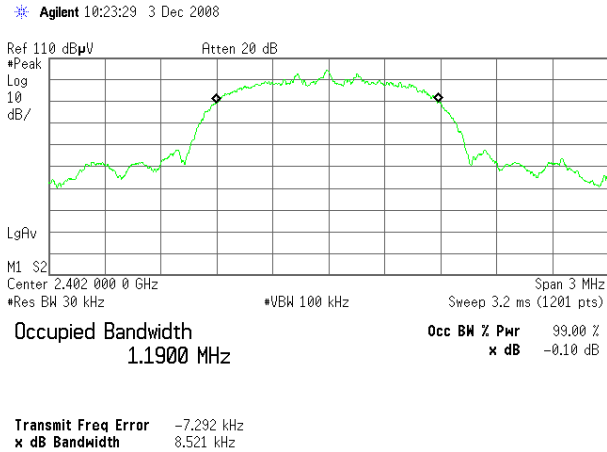
\* Agilent 10:32:57 3 Dec 2008



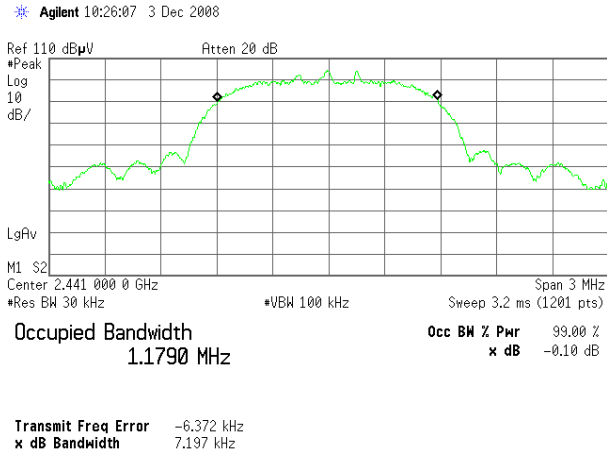
Transmit Freq Error -1.593 kHz  
x dB Bandwidth 7.730 kHz

[Hopping off, 3DH5]

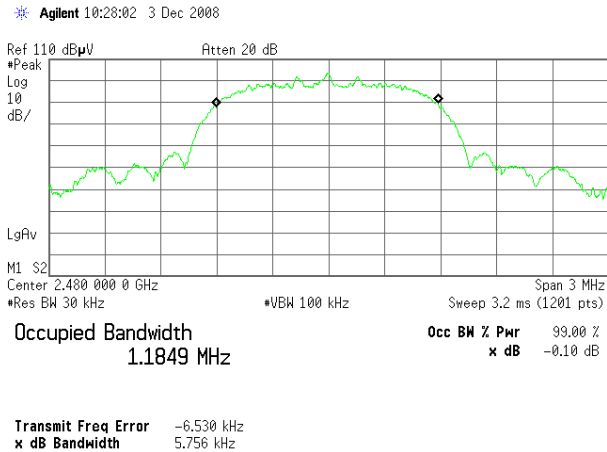
4. ch : 2402MHz/Occupied Bandwidth: 1.1900MHz



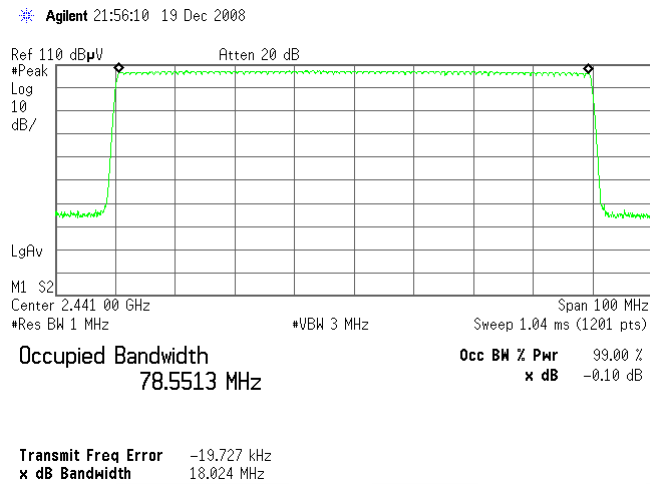
5. ch : 2441MHz/Occupied Bandwidth: 1.1790MHz



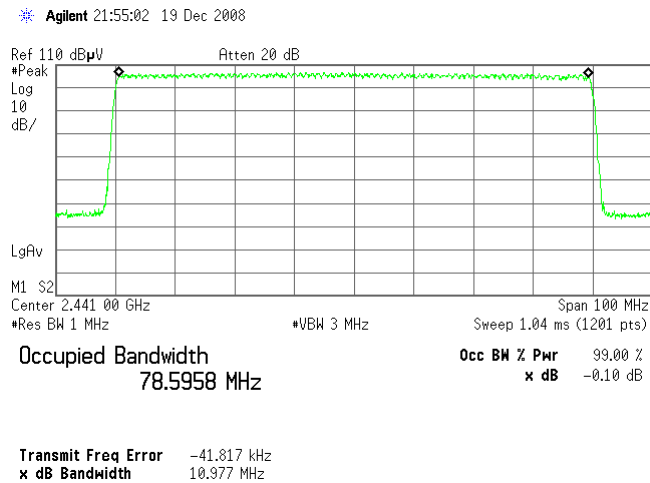
6. ch : 2480MHz/Occupied Bandwidth: 1.1849MHz



7. Hopping, DH5/Occupied Bandwidth: 78.6MHz



8. Hopping, 3DH5/Occupied Bandwidth: 78.6MHz





### APPENDIX 3 Test Instruments

#### EMI test equipment

Control No.	Instrument	Manufacturer	Model No	Serial No	Test Item	Calibration Date * Interval(month)
KSA-08	Spectrum Analyzer	Agilent	E4446A	MY46180525	AT 1,2,3,4,6	2008/01/11 * 12
KCC-D20	Coaxial Cable	SUHNER	SUCOFLEX102	31110/2	AT all	2008/07/09 * 12
KPM-05	Power meter	Agilent	E4417A	GB41290718	AT 5	2008/03/21 * 12
KPSS-01	Power sensor	Agilent	E9327A	US40440544	AT 5	2008/03/27 * 12
KDT-01	Coaxial Crystal Detector	Agilent	8473C	1822A05320	AT 4	Pre Check
KOSC-01	Oscilloscope	Tektronix	TDS-2022B	C050588	AT 4	2008/05/07 * 12
KOS-01	Humidity Indicator	Custom	CTH-190	K-01	AT(2S/R)	2008/07/14 * 12
KOS-10	Humidity Indicator	Custom	CTH-190	K-10	AT(3S/R)	2008/07/07 * 12
CUST-YA-RE	Radiated emission(software)	UL Japan	RE(Ver.1.5)	-	RE	-
KAEC-01	Anechoic Chamber	JSE	Semi 3m	1	RE	2008/08/06 * 12
KAF-08	Pre Amplifier	Anritsu	MH648A	M90147	RE	2008/06/03 * 12
KAT6-01	Attenuator	INMET	18N-6dB	-	RE	2008/03/17 * 12
KBA-03	Biconical Antenna	Schwarzbeck	BBA9106	1926	RE	2008/12/28 * 12
KCC-30/31/32 /34/KRM-03	Coaxial Cable/RF Relay Matrix	Fujikura/Suhner/TSJ	5D-2W/S04272B/ RFM-E421	-/01055	RE	2008/10/22 * 12
KLA-03	Logperiodic Antenna	Schwarzbeck	USLP9143	170	RE	2008/12/28 * 12
KTR-01	Test Receiver	Rohde & Schwarz	ES140	100054/040	RE	2008/04/18 * 12
KTR-04	Test Receiver	Rohde & Schwarz	ESVS10	825475/006	RE	2008/10/20 * 12
KOS-02	Humidity Indicator	Custom	CTH-190	K-02	RE	2008/07/07 * 12
KJM-07	Measure	KOMELON	KMC-36	-	RE	-
KAF-07	Pre Amplifier	Hewlett Packard	8449B	3008A01002	RE	2007/12/10 * 12
KCC-D16/D17	Coaxial Cable	INSULATED WIRE INC	KPS-1501-200-KP S/KPS-1501-2000 -KPS	04202005	RE	2008/02/21 * 12
KHA-01	Horn Antenna	A.H.Systems	SAS-200/571	354	RE	2008/08/11 * 12
KHA-03	Horn Antenna	EMCO	3160-09	1239	RE	2008/04/30 * 12

The expiration date of the calibration is the end of the expired month .

All equipment is calibrated with traceable calibrations . Each calibration is traceable to the national or international standards .

#### Test Item :

RE: Out of Band Emission (Radiated)

AT: Antenna terminal conducted test

1: Carrier Frequency Separation

2: 20dB Bandwidth

3: Number of Hopping Frequency

4: Dwell time

5: Maximum Peak Output Power

6: Out of Band Emission (Conducted)

\*Some calibrations were performed after the tested dates , however those test equipment have been controlled by means of an unbroken chains of calibrations .